


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 922-34K1BS				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES				
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-0149077			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	2078 FSL 1019 FWL		NWSW	34	9.0 S	22.0 E	S			
Top of Uppermost Producing Zone	2574 FSL 2152 FWL		NESW	34	9.0 S	22.0 E	S			
At Total Depth	2574 FSL 2152 FWL		NESW	34	9.0 S	22.0 E	S			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1500		23. NUMBER OF ACRES IN DRILLING UNIT 600					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 873		26. PROPOSED DEPTH MD: 9162 TVD: 8965					
27. ELEVATION - GROUND LEVEL 4989			28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496					
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2400	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 9162	11.6	I-80 LT&C	12.0	Premium Lite High Strength	300	3.38	12.0
							50/50 Poz	1250	1.31	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Gina Becker			TITLE Regulatory Analyst II			PHONE 720 929-6086				
SIGNATURE			DATE 01/03/2013			EMAIL gina.becker@anadarko.com				
API NUMBER ASSIGNED 43047535040000			APPROVAL  Permit Manager							

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-34K1BS**

Surface:	2078 FSL / 1019 FWL	NWSW
BHL:	2574 FSL / 2152 FWL	NESW

Section 34 T9S R22E

Uintah County, Utah
Mineral Lease: UTU-0149077**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,189'	
Birds Nest	1,503'	Water
Mahogany	1,950'	Water
Wasatch	4,375'	Gas
Mesaverde	6,718'	Gas
Sego	8,965'	Gas
TVD	8,965'	
TD	9,162'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

11/27/2012

RECEIVED: December 27, 2012

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8965' TVD, approximately equals
5,469 psi 0.61 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,520 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press. (MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

10. Other Information:

Please refer to the attached Drilling Program.

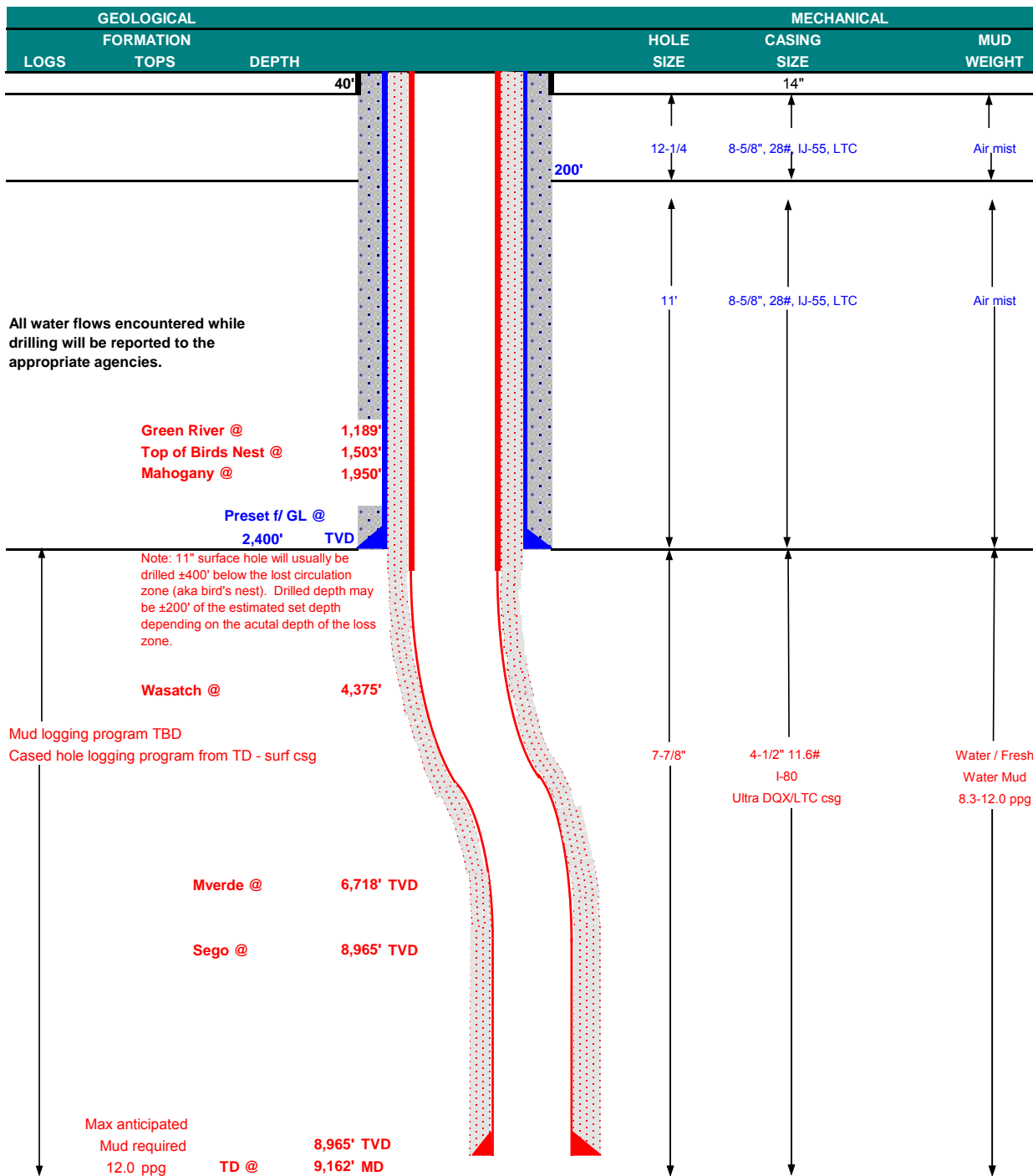
11/27/2012

RECEIVED: December 27, 2012



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	November 27, 2012		
WELL NAME	NBU 922-34K1BS					TD	8,965'	TVD	9,162' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION		4,989'
SURFACE LOCATION	NWSW	2078 FSL	1019 FWL	Sec 34	T 9S	R 22E			
	Latitude:	39.990970	Longitude:	-109.431940			NAD 83		
BTM HOLE LOCATION	NESW	2574 FSL	2152 FWL	Sec 34	T 9S	R 22E			
	Latitude:	39.992331	Longitude:	-109.427898			NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.								





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	LTC	DQX
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,400	28.00	IJ-55	LTC	2.25	1.67	5.91
						7,780	6,350	223,000
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.14	3.08
						7,780	6,350	223,000
	4-1/2"	5,000 to 9,162'	11.60	I-80	LTC	1.11	1.14	5.66

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe
 Fracture at surface shoe with 0.1 psi/ft gas gradient above
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1 TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE LEAD	1,900'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	180	35%	11.00	3.82
Option 2 TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,872'	Premium Lite II + 0.25 pps celloflake + .4% FL-52 + .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II + 1.2% Sodium Metasilicate + .05 lbs/sk Static Free	300	35%	12.00	3.38
TAIL	5,290'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free + 1.2% Sodium Metasilicate + .5 % EC-1 + .002 gps FP-6L + 2% Bentonite II	1,250	35%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

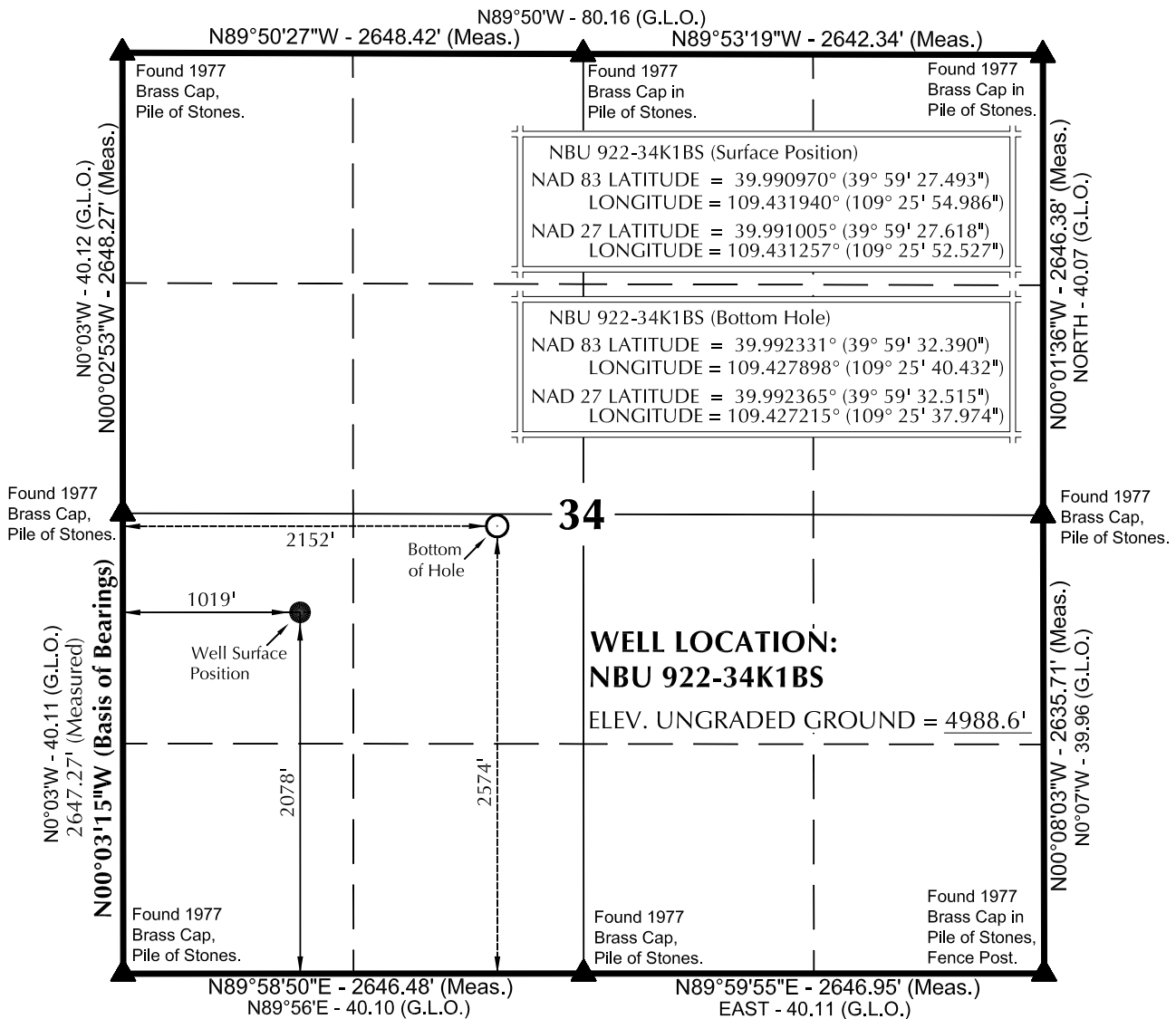
DRILLING ENGINEER:

Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliot

DATE:**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

DATE:

T9S, R22E, S.L.B.&M.**NOTES:**

- ▲ = Section Corners Located
- Well footages are measured at right angles to the Section Lines. G.L.O. distances are shown in feet or chains.
 - 1 chain = 66 feet.
 - The Bottom of hole bears N66°21'01"E 1236.69' from the Surface Position.
 - NAD 83 Latitude & Longitude are (CORS 96)(EPOCH:2002).
 - Bearings and Distances are based upon a Local Cartesian Grid, oriented to Geodetic North at the North 1/4 Corner of Section 8, T10S, R22E, S.L.B.&M. The Grid having a mean project height of 5300'. Lineal units used are U.S. Survey Foot.
 - Basis of elevation is Tri-Sta "Two Water" located in Lot 4 of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

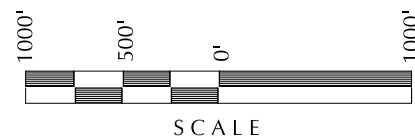
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 922-34L

NBU 922-34K1BS
WELL PLAT

2574' FSL, 2152' FWL (Bottom Hole)
NE ¼ SW ¼ OF SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.

CONSULTING, LLC
 2155 North Main Street
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

**SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John R. Haugh
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION NO. 6028691
 STATE OF UTAH

TIMBERLINE

(435) 789-1365

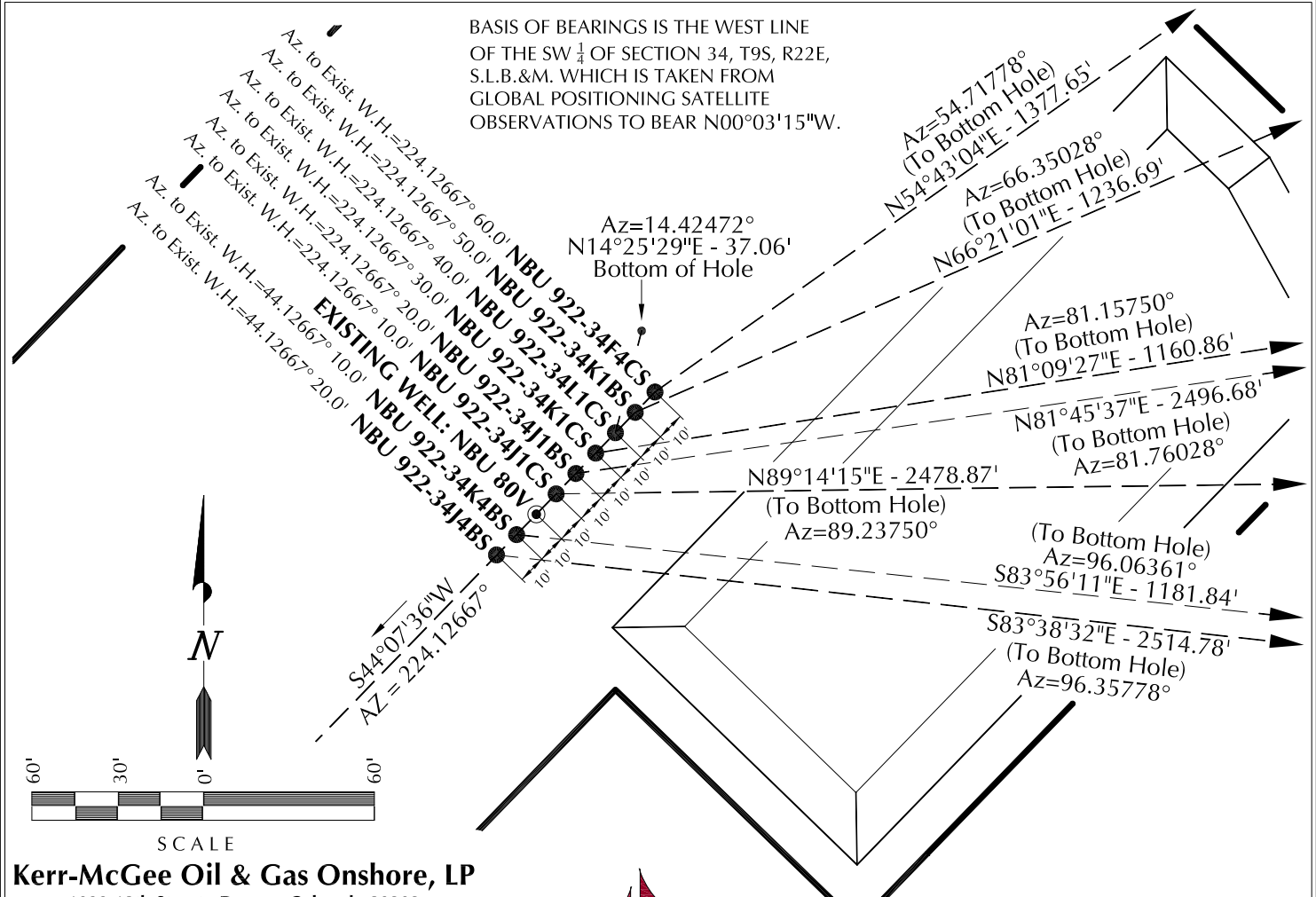
ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 6-4-12	SURVEYED BY: A.F.	SHEET NO:
DATE DRAWN: 6-15-12	DRAWN BY: T.J.R.	2
SCALE: 1" = 1000'	Date Last Revised: 9-15-12 T.J.R.	2 OF 20

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-34F4CS	39°59'27.564"	109°25'54.896"	39°59'27.689"	109°25'52.437"	2085' FSL	39°59'35.421"	109°25'40.447"	39°59'35.546"	109°25'37.988"	2408' FNL
NBU 922-34K1BS	39.990990°	109.431916°	39.991025°	109.431233°	1026' FWL	39.993173°	109.427902°	39.993207°	109.427219°	2151' FWL
NBU 922-34K1CS	39°59'27.493"	109°25'54.986"	39°59'27.618"	109°25'52.527"	2078' FSL	39°59'32.390"	109°25'40.432"	39°59'32.515"	109°25'37.974"	2574' FSL
NBU 922-34J1BS	39.990970°	109.431940°	39.991005°	109.431257°	1019' FWL	39.992331°	109.427898°	39.992365°	109.427215°	2152' FWL
NBU 922-34L1CS	39°59'27.422"	109°25'55.075"	39°59'27.547"	109°25'52.616"	2071' FSL	39°59'27.777"	109°25'54.956"	39°59'27.901"	109°25'52.497"	2107' FSL
NBU 922-34K1CS	39.990951°	109.431965°	39.990985°	109.431282°	1012' FWL	39.991049°	109.431932°	39.991084°	109.431249°	1021' FWL
NBU 922-34K1CS	39°59'27.351"	109°25'55.164"	39°59'27.476"	109°25'52.706"	2064' FSL	39°59'29.110"	109°25'40.430"	39°59'29.235"	109°25'37.972"	2242' FSL
NBU 922-34J1BS	39.990931°	109.431990°	39.990966°	109.431307°	1005' FWL	39.991419°	109.427897°	39.991454°	109.427214°	2152' FWL
NBU 922-34J1BS	39°59'27.280"	109°25'55.254"	39°59'27.405"	109°25'52.795"	2057' FSL	39°59'30.806"	109°25'23.514"	39°59'30.930"	109°25'21.056"	2414' FSL
NBU 922-34J1CS	39.990911°	109.432015°	39.990946°	109.431332°	998' FWL	39.991890°	109.423198°	39.991925°	109.422516°	1821' FEL
NBU 922-34J1CS	39°59'27.209"	109°25'55.343"	39°59'27.334"	109°25'52.884"	2050' FSL	39°59'27.525"	109°25'23.506"	39°59'27.650"	109°25'21.048"	2082' FSL
NBU 922-34J1CS	39.990891°	109.432040°	39.990926°	109.431357°	991' FWL	39.990979°	109.423196°	39.991014°	109.422513°	1821' FEL
NBU 922-34K4BS	39°59'27.068"	109°25'55.522"	39°59'27.192"	109°25'53.063"	2035' FSL	39°59'25.830"	109°25'40.428"	39°59'25.954"	109°25'37.969"	1910' FSL
NBU 922-34K4BS	39.990852°	109.432090°	39.990887°	109.431407°	977' FWL	39.990508°	109.427897°	39.990543°	109.427214°	2152' FWL
NBU 922-34J4BS	39°59'26.997"	109°25'55.612"	39°59'27.121"	109°25'53.153"	2028' FSL	39°59'24.235"	109°25'23.510"	39°59'24.360"	109°25'21.053"	1749' FSL
NBU 922-34J4BS	39.990832°	109.432114°	39.990867°	109.431431°	970' FWL	39.990065°	109.423197°	39.990100°	109.422515°	1822' FEL
NBU 80V	39°59'27.138"	109°25'55.433"	39°59'27.263"	109°25'52.974"	2042' FSL					
NBU 80V	39.990872°	109.432065°	39.990906°	109.431382°	984' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-34F4CS	795.7'	1124.6'	NBU 922-34K1BS	496.1'	1132.8'	NBU 922-34L1CS	35.9'	9.2'	NBU 922-34K1CS	178.4'	1147.1'
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-34J1BS	357.8'	2470.9'	NBU 922-34J1CS	33.0'	2478.7'	NBU 922-34K4BS	-124.8'	1175.2'	NBU 922-34J4BS	-278.5'	2499.3'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L

WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.



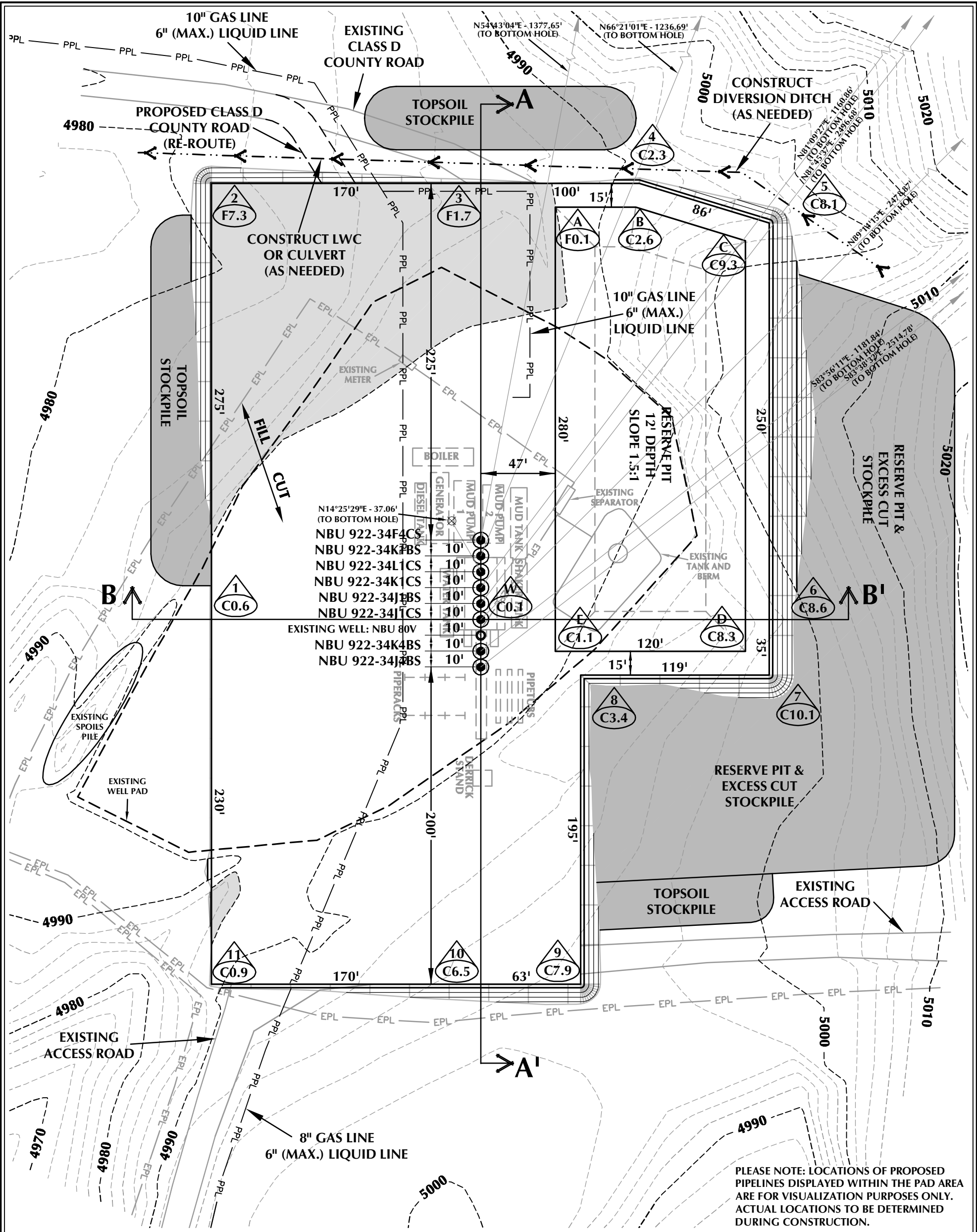
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Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 6-4-12	SURVEYED BY: A.F.	SHEET NO: 9 9 OF 20
DATE DRAWN: 6-15-12	DRAWN BY: T.J.R.	
SCALE: 1" = 60'	Date Last Revised: 9-15-12 T.J.R.	



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

WELL PAD - NBU 922-34L DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4988.6'
FINISHED GRADE ELEVATION = 4988.5'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.88 ACRES
TOTAL DISTURBANCE AREA = 5.48 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L

WELL PAD - LOCATION LAYOUT
NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 13,407 C.Y.
TOTAL FILL FOR WELL PAD = 4,452 C.Y.
TOPSOIL @ 6" DEPTH = 1,770 C.Y.
EXCESS MATERIAL = 8,955 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 11,670 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 44,820 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE

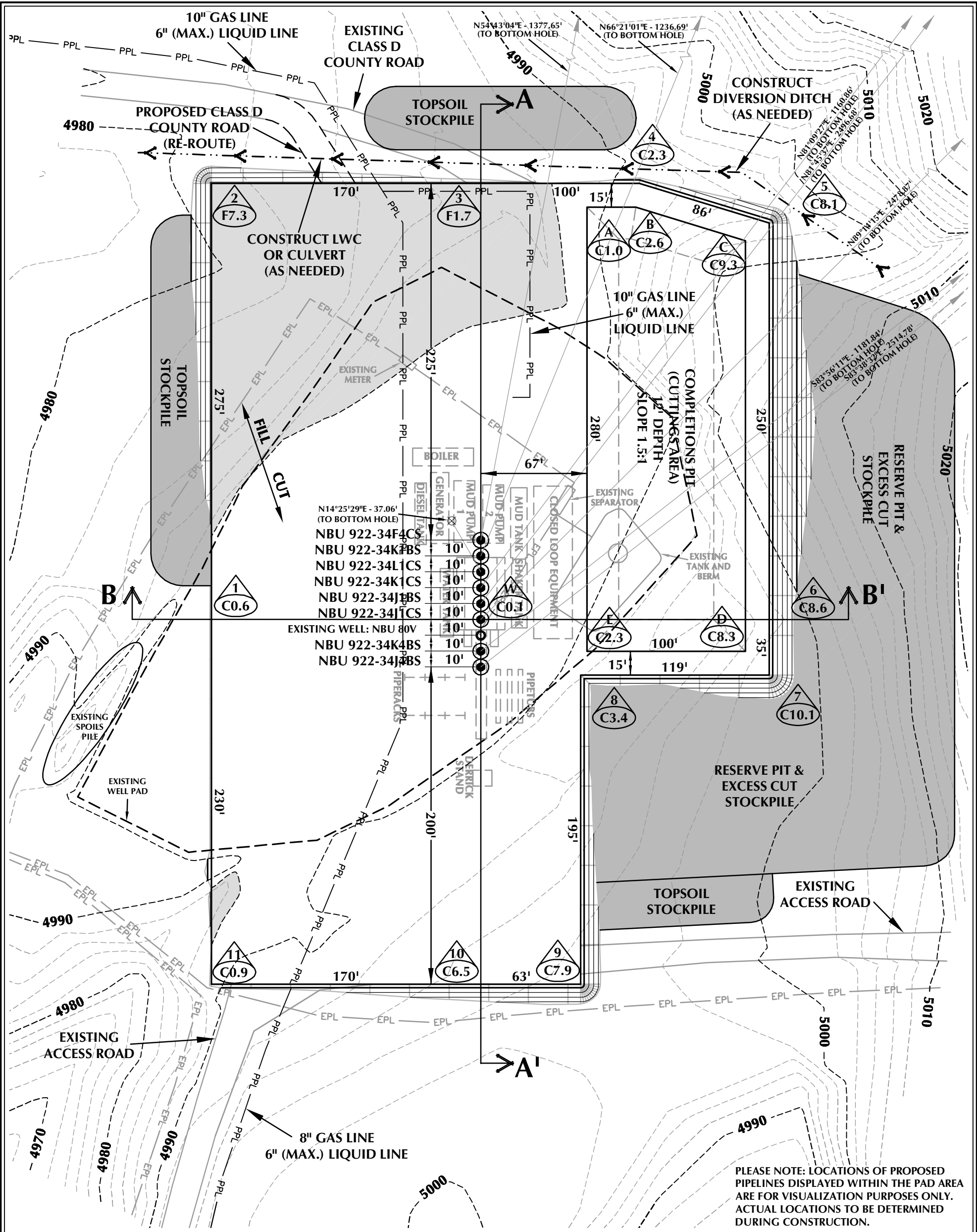


HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

SCALE: 1"=60' DATE: 7/10/12 SHEET NO:

REVISED: 9/19/12 10 10 OF 20



WELL PAD - NBU 922-34L (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4988.6'
FINISHED GRADE ELEVATION = 4988.5'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.88 ACRES
TOTAL DISTURBANCE AREA = 5.48 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L

WELL PAD - LOCATION LAYOUT
NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 13,407 C.Y.
TOTAL FILL FOR WELL PAD = 4,452 C.Y.
TOPSOIL @ 6" DEPTH = 1,770 C.Y.
EXCESS MATERIAL = 8,955 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT
+/- 9,340 C.Y.
COMPLETIONS PIT CAPACITY
(2' OF FREEBOARD)
+/- 35,600 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE

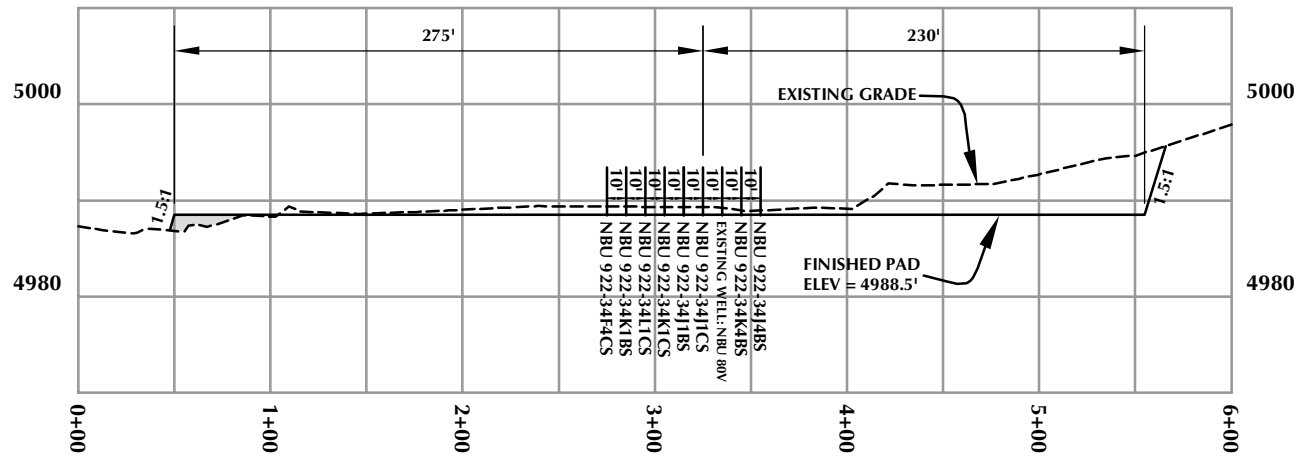
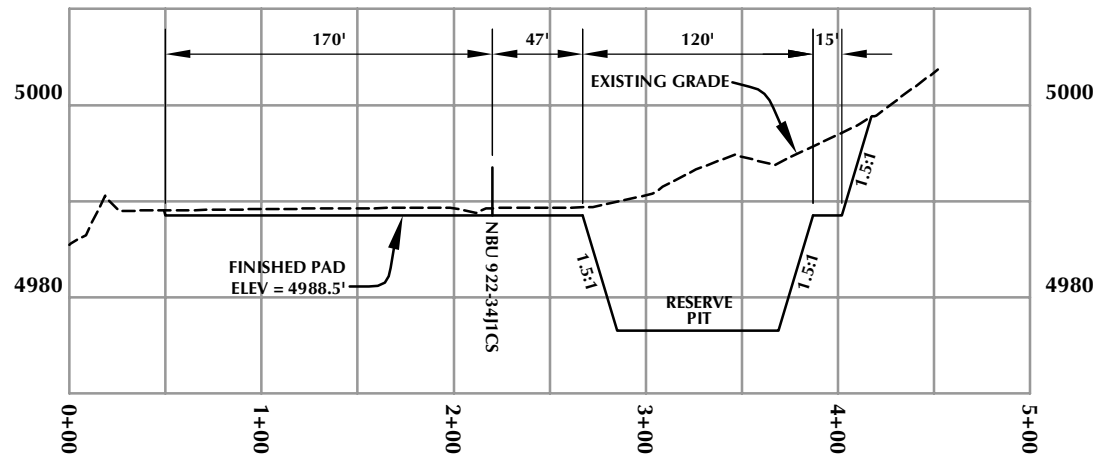


HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

SCALE: 1"=60' DATE: 9/19/12 SHEET NO: 10B 10B OF 20

REVISED:

**CROSS SECTION A-A'****CROSS SECTION B-B'**

NOTE: CROSS SECTION B-B' DEPICTS
MAXIMUM RESERVE PIT DEPTH.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L**WELL PAD - CROSS SECTIONS**

NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

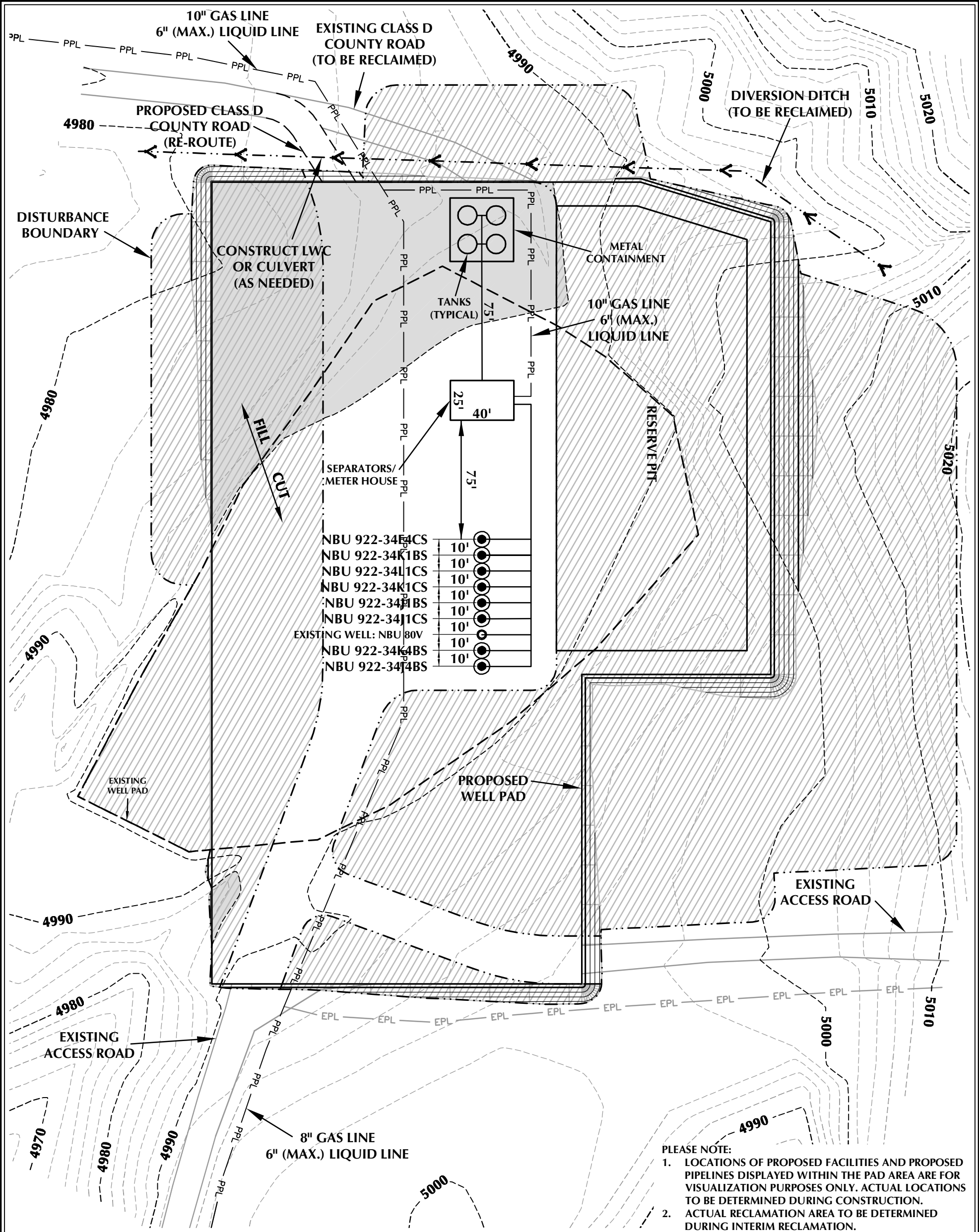
HORIZONTAL 0 50' 100' 1" = 100'
VERTICAL 0 10' 20' 1" = 20'

Scale: 1"=100' Date: 7/10/12
REVISED: 9/19/12

SHEET NO:

11

11 OF 20



PLEASE NOTE:
1. LOCATIONS OF PROPOSED FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.
2. ACTUAL RECLAMATION AREA TO BE DETERMINED DURING INTERIM RECLAMATION.

WELL PAD - NBU 922-34L DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 5.66 ACRES (INCLUDING EXISTING)
RECLAMATION AREA = 4.28 ACRES
TOTAL WELL PAD AREA AFTER RECLAMATION = 1.38 ACRES

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L

WELL PAD - RECLAMATION LAYOUT
NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



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2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
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209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE
- RECLAMATION AREA



HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

SCALE: 1"=60' DATE: 7/10/12 SHEET NO:
REVISED: 9/19/12 12 12 OF 20

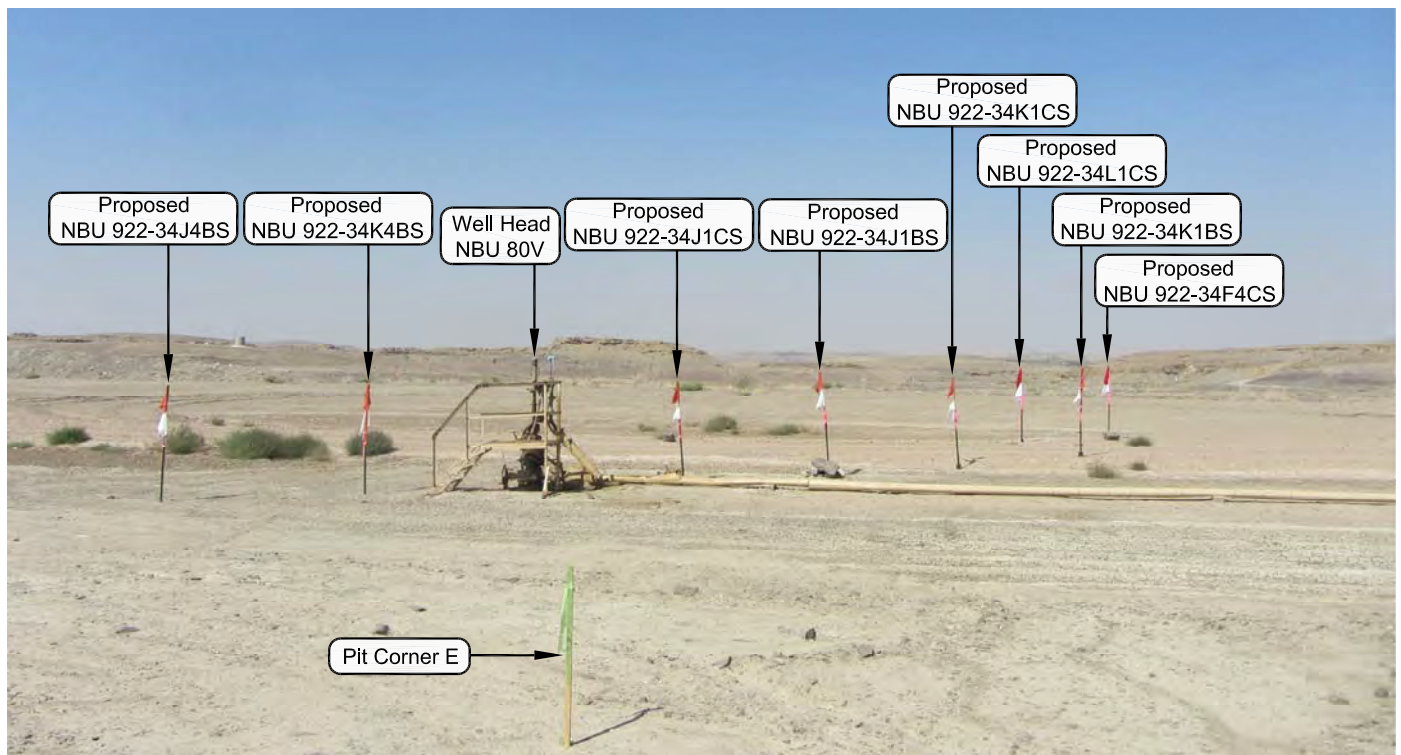


PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-34L

LOCATION PHOTOS
NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.



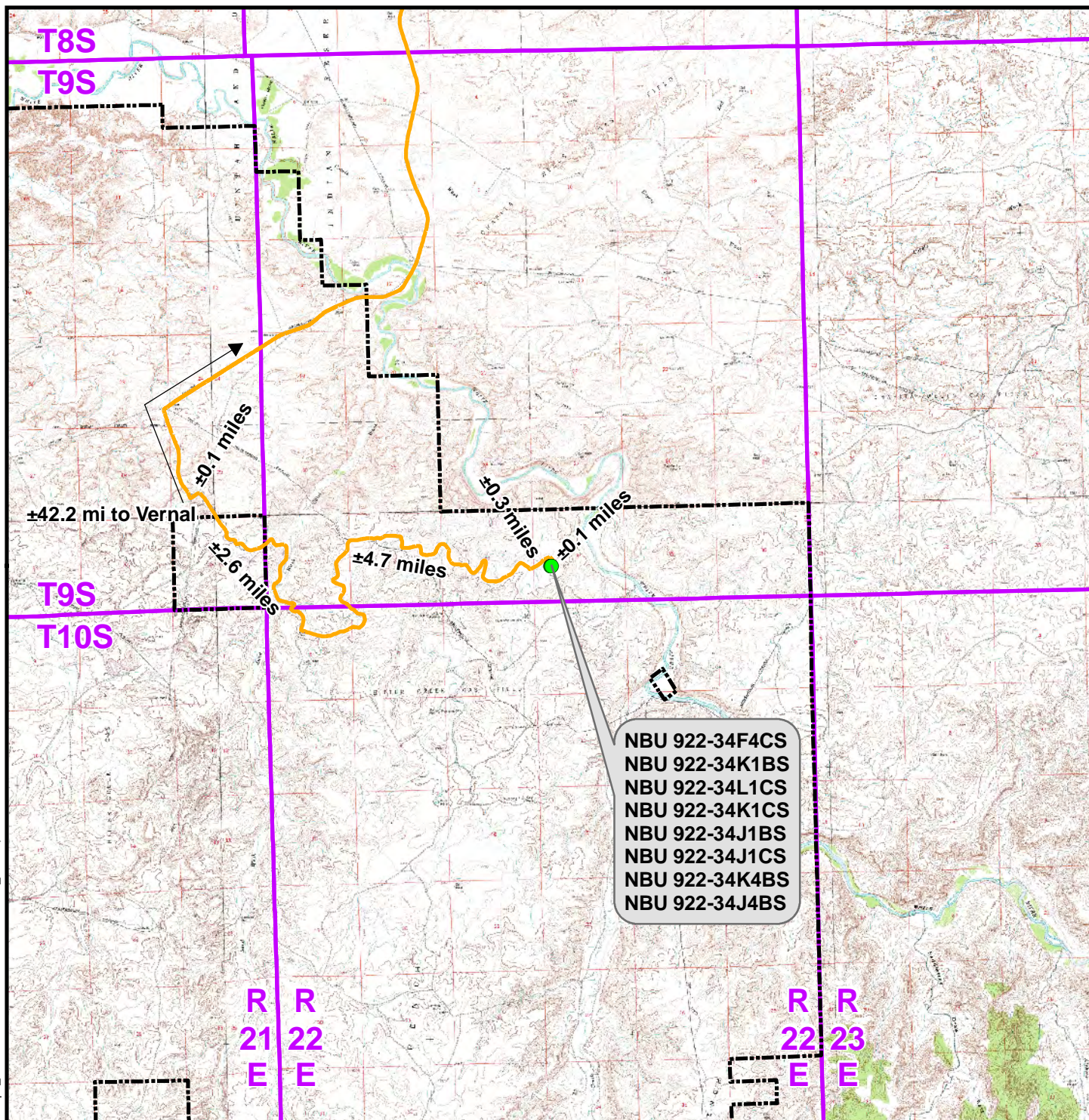
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 6-4-12	PHOTOS TAKEN BY: A.F.	SHEET NO: 13 13 OF 20
DATE DRAWN: 6-15-12	DRAWN BY: T.J.R.	
Date Last Revised:		



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 922-34L To Unit Boundary: ±3,206ft

WELL PAD - NBU 922-34L

TOPO A

NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC

2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE: 1:100,000

DRAWN: TL

REVISED:

NAD83 USP Central

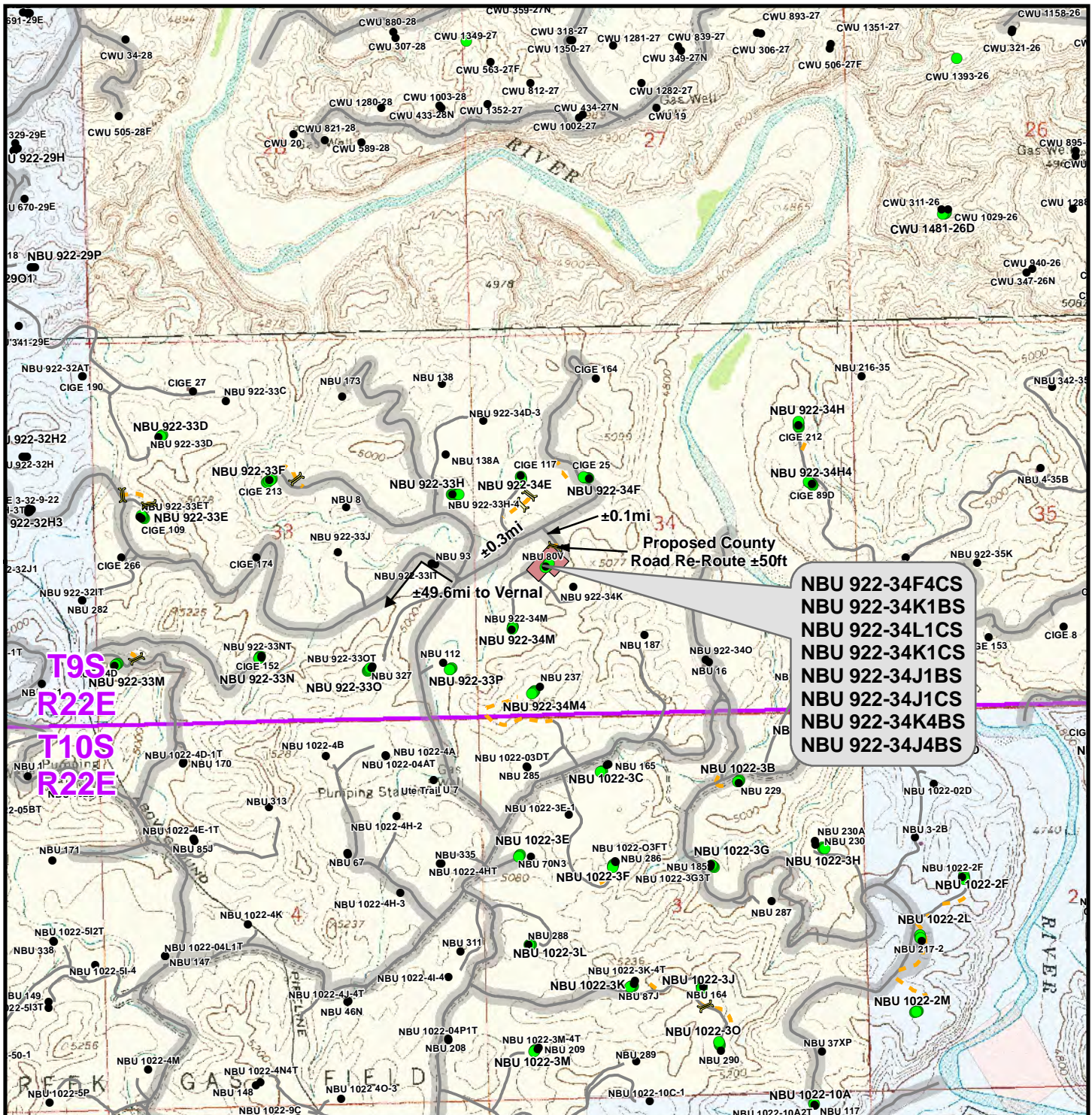
DATE: 5 July 2012

DATE:

SHEET NO:

14

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**WELL PAD - NBU 922-34L****TOPO B**

NBU 922-34F4CS, NBU 922-34K1BS,
 NBU 922-34L1CS, NBU 922-34K1CS,
 NBU 922-34J1BS, NBU 922-34J1CS,
 NBU 922-34K4BS & NBU 922-34J4BS
 LOCATED IN SECTION 34, T9S, R22E,
 S.L.B.&M., Uintah County, Utah

**Kerr-McGee Oil &
 Gas Onshore L.P.**

1099 18th Street
 Denver, Colorado 80202

**CONSULTING, LLC**

2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED: TL

NAD83 USP Central

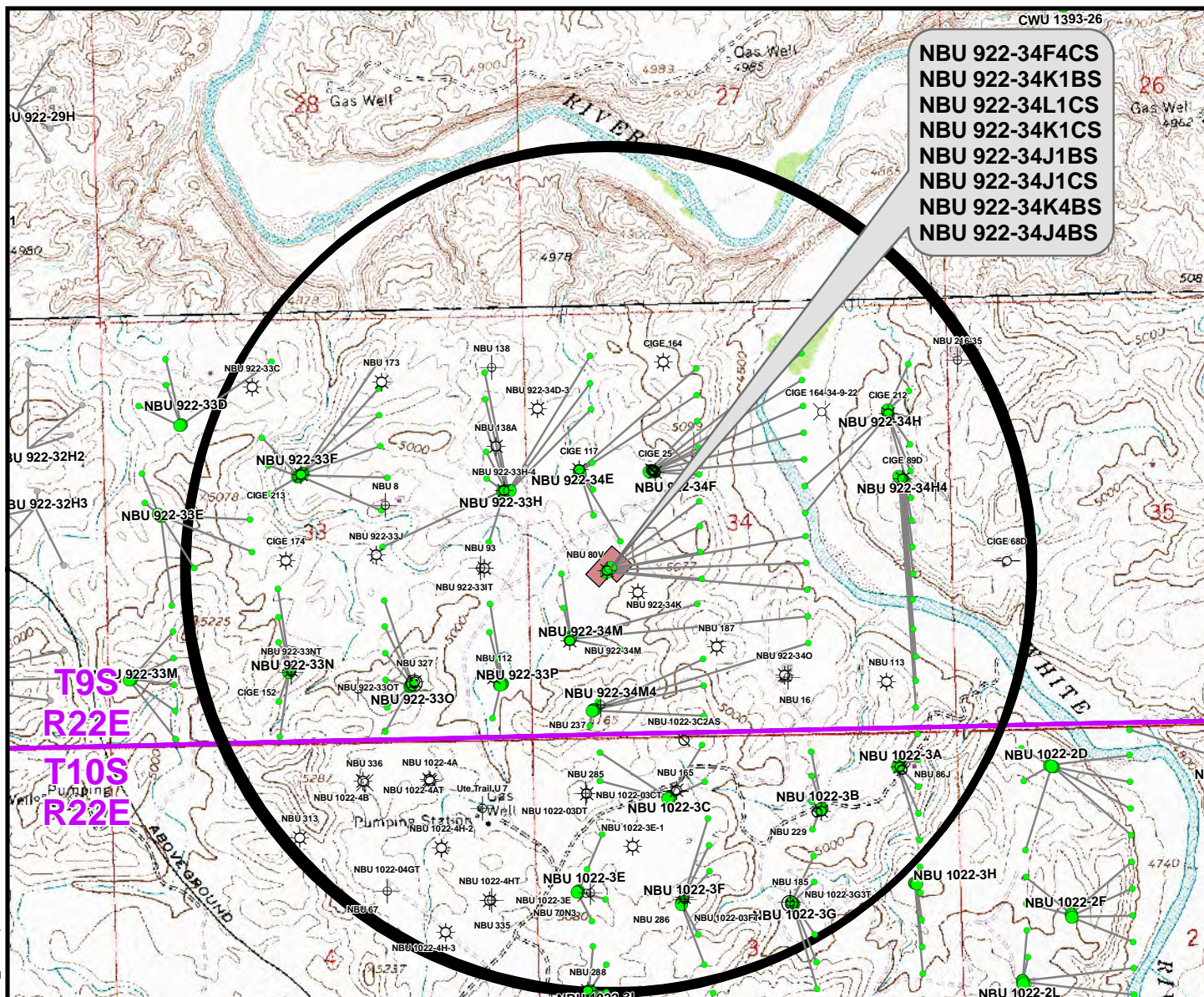
DATE: 5 July 2012

DATE: 18 Sept 2012

SHEET NO:

15

15 OF 20



Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
NBU 922-34F4CS	CIGE 25	661ft
NBU 922-34K1BS	CIGE 25	873ft
NBU 922-34L1CS	NBU 80V	74ft
NBU 922-34K1CS	NBU 922-34K	929ft
NBU 922-34J1BS	CIGE 89D	1,402ft
NBU 922-34J1CS	NBU 922-34O	1,420ft
NBU 922-34K4BS	NBU 922-34K	810ft
NBU 922-34J4BS	NBU 922-34O	1,097ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Well - 1 Mile Radius
- ☀ Producing
- ☺ Spudded
- APD Approved
- ⊙ Preliminary Location
- ⊕ Deferred
- ✕ Cancelled
- ⊖ Temporarily Abandoned
- ☀ Active Injector
- ⊕ Plugged & Abandoned
- ⊗ Location Abandoned
- ⊖ Shut-In

WELL PAD - NBU 922-34L

TOPO C

NBU 922-34F4CS, NBU 922-34K1BS, NBU 922-34L1CS, NBU 922-34K1CS, NBU 922-34J1BS, NBU 922-34J1CS, NBU 922-34K4BS & NBU 922-34J4BS LOCATED IN SECTION 34, T9S, R22E, S.L.B.&M., Uintah County, Utah

Kerr-McGee Oil & Gas Onshore L.P.

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Denver, Colorado 80202



CONSULTING, LLC

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Phone 307-674-0609
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

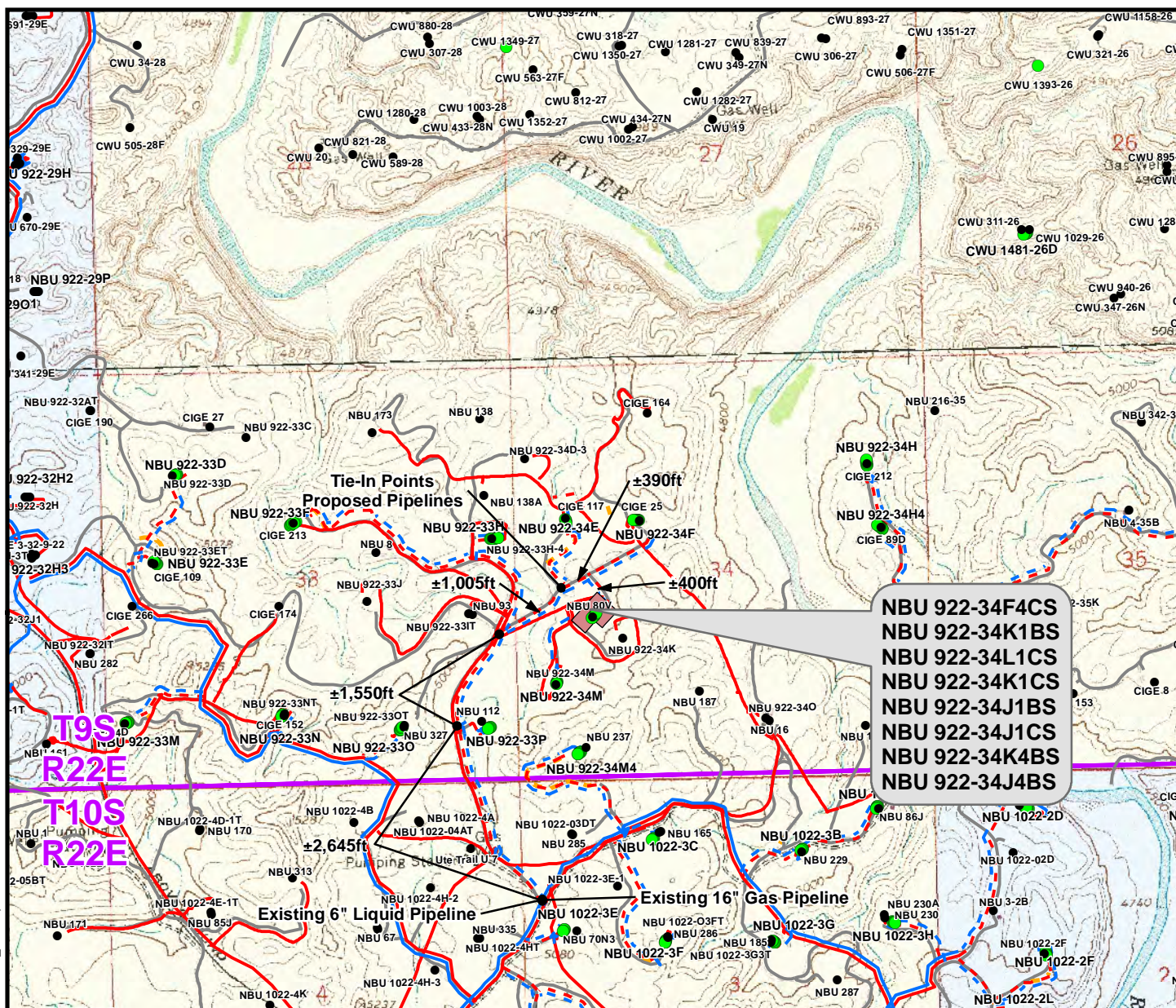
DATE: 18 Sept 2012

DATE:

SHEET NO:

16

16 OF 20

**WELL PAD - NBU 922-34L****TOPO D**

NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., Uintah County, Utah

**Kerr-McGee Oil &
Gas Onshore L.P.**

1099 18th Street
Denver, Colorado 80202

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2155 North Main Street
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Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

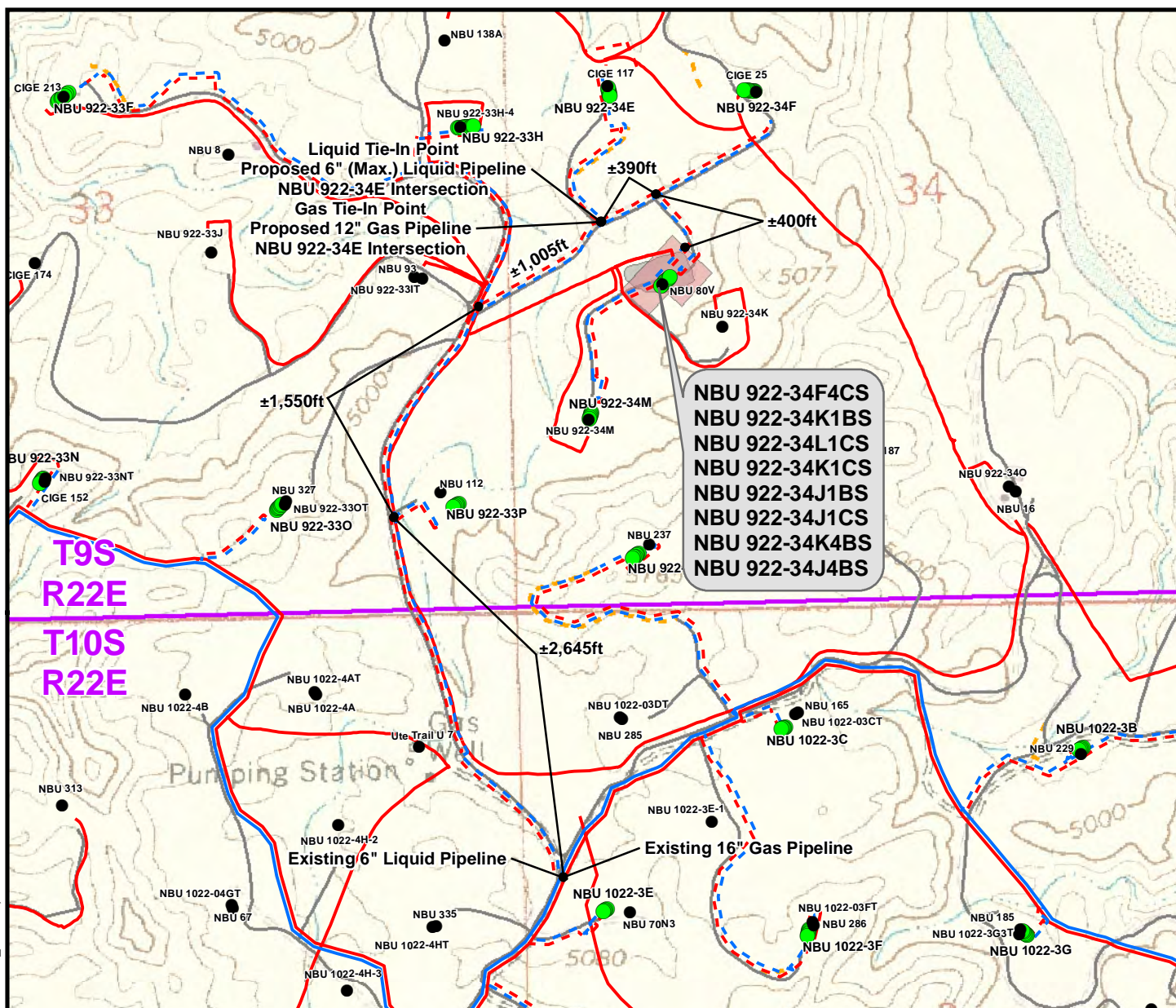
DATE: 18 Sept 2012

DATE:

SHEET NO:

17

17 OF 20



Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Separator to 34M Intersection)	±235ft
Buried 6"(Max.) (34M Intersection to 34F Intersection)	±400ft
Buried 6"(Max.) (34F Intersection to 34E Intersection)	±390ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,025ft

Proposed Gas Pipeline	Length
Buried 10" (Meter House to 34M Intersection)	±235ft
Buried 10" (34M Intersection to 34F Intersection)	±400ft
Buried 12" (34F Intersection to 34E Intersection)	±390ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±1,025ft

Legend

Well - Proposed	Well Pad - Proposed	Gas Pipeline - Proposed	Liquid Pipeline - Proposed	Road - Proposed	Bureau of Land Management
Well - Existing	Well Pad - Existing	Gas Pipeline - To Be Upgraded	Liquid Pipeline - Existing	Road - Existing	Indian Reservation
		Gas Pipeline - Existing			State
					Private

WELL PAD - NBU 922-34L

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 922-34F4CS, NBU 922-34K1BS,
 NBU 922-34L1CS, NBU 922-34K1CS,
 NBU 922-34J1BS, NBU 922-34J1CS,
 NBU 922-34K4BS & NBU 922-34J4BS
 LOCATED IN SECTION 34, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
 Denver, Colorado 80202



CONSULTING, LLC

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 Sheridan, Wyoming 82801
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 Fax 307-674-0182

SCALE: 1" = 1,000ft

DRAWN: TL

REVISED: TL

NAD83 USP Central

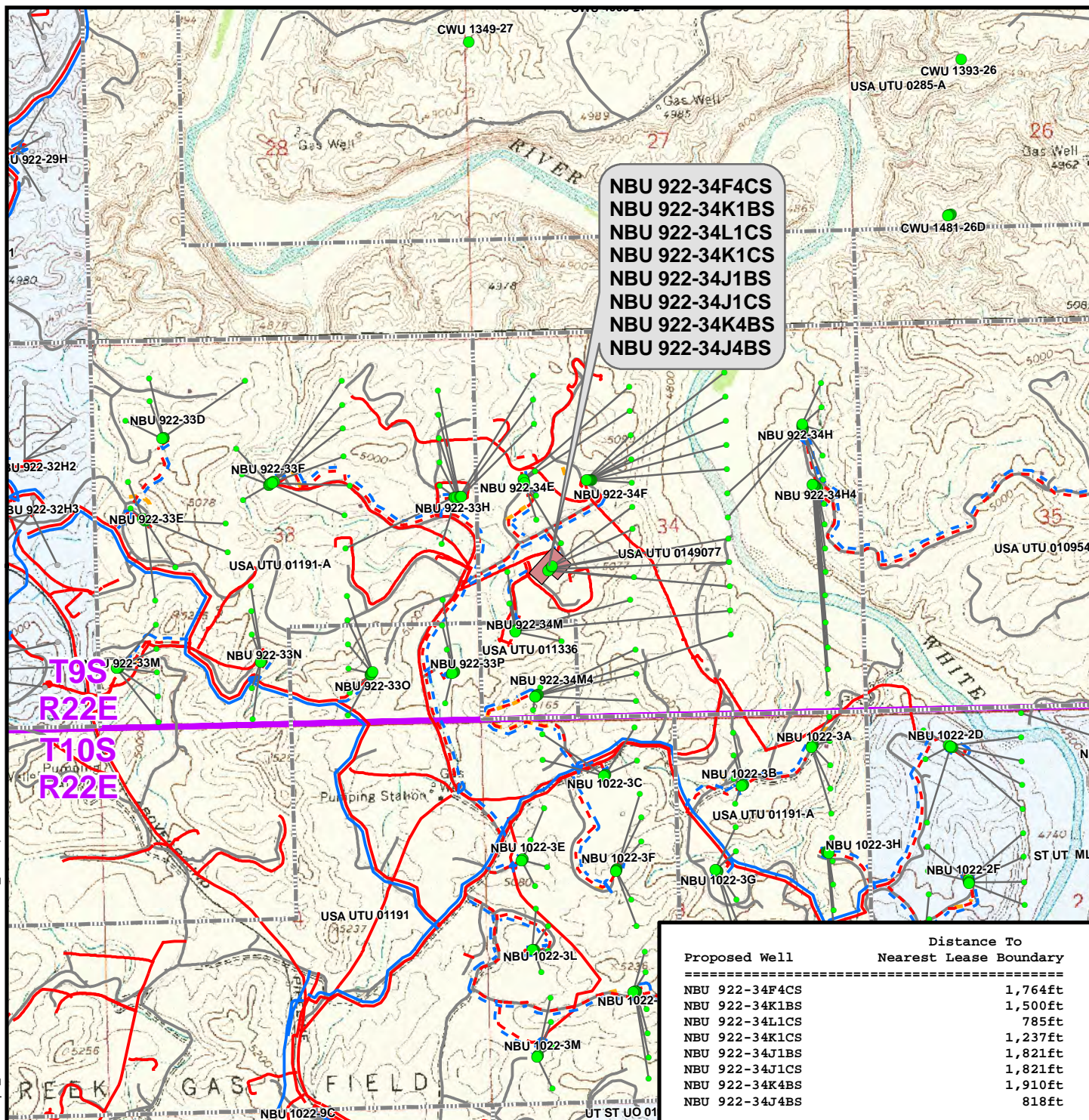
DATE: 5 July 2012

DATE: 18 Sept 2012

SHEET NO:

18

18 OF 20



Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

WELL PAD - NBU 922-34L

TOPO E

NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
LOCATED IN SECTION 34, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

Kerr-McGee Oil &
Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202



CONSULTING, LLC

2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 18 Sept 2012

DATE:

SHEET NO:

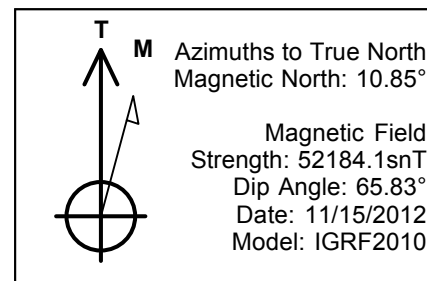
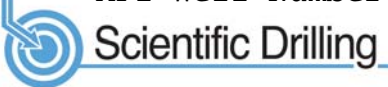
19

19 OF 20

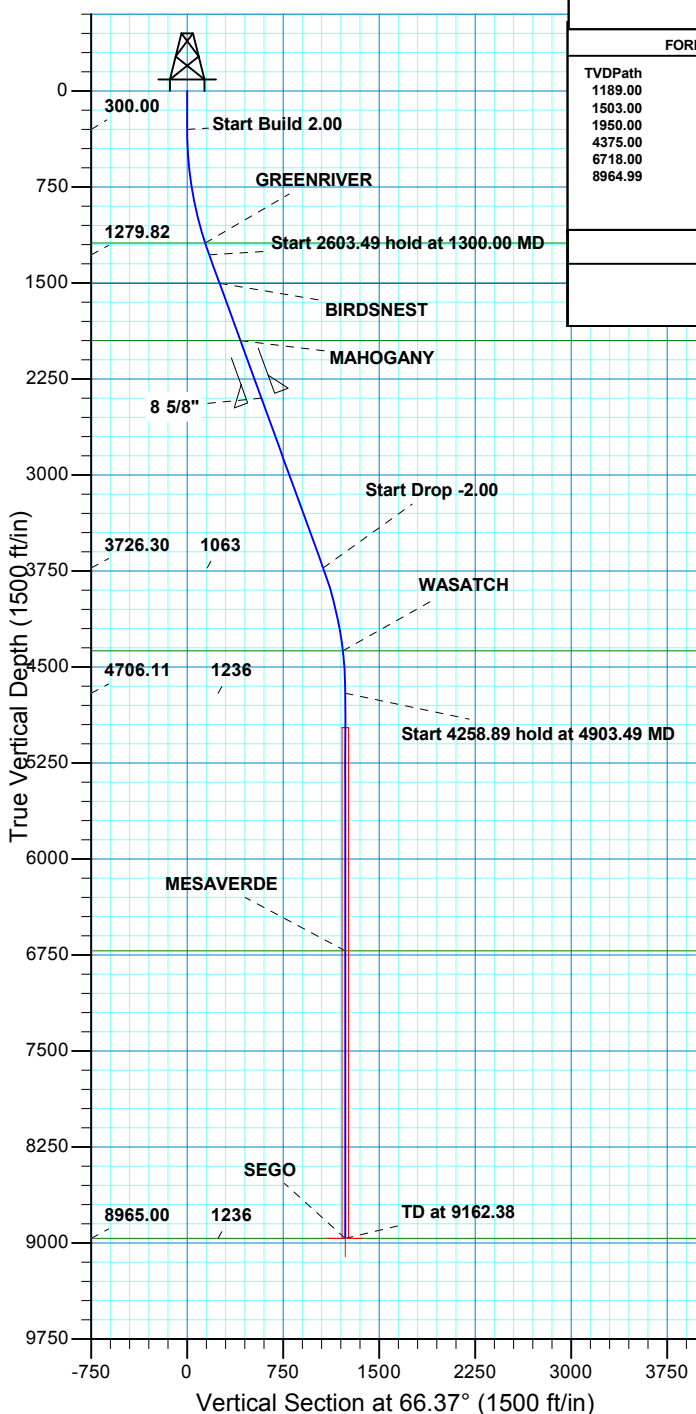
**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-34L
WELLS – NBU 922-34F4CS, NBU 922-34K1BS,
NBU 922-34L1CS, NBU 922-34K1CS,
NBU 922-34J1BS, NBU 922-34J1CS,
NBU 922-34K4BS & NBU 922-34J4BS
Section 34, T9S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 2.6 miles to a third Class D County Road to the east. Exit left and proceed in an easterly, then northeasterly, then southeasterly direction along the third Class D County Road approximately 4.7 miles to a four-way intersection. Proceed through the four-way intersection in a southeasterly direction to a fourth Class D County Road to the northeast. Proceed in a northeasterly direction along the fourth Class D County Road approximately 0.3 miles to a fifth Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the fifth Class D County Road approximately 0.1 miles to the proposed access road to the south. Follow road flags in a southerly direction approximately 50 feet to the proposed well location.

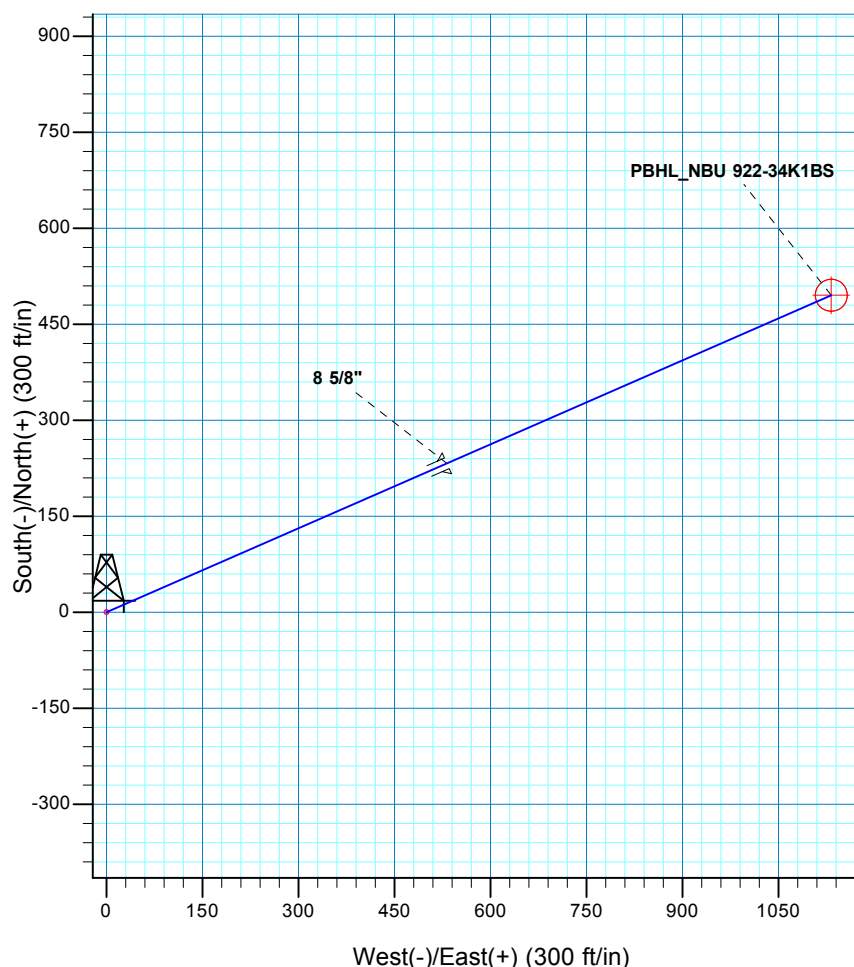
Total distance from Vernal, Utah to the proposed well location is approximately 50.0 miles in a southerly direction.



WELL DETAILS: NBU 922-34K1BS							
GL 4984 & KB 4 @ 4993.00ft (ASSUMED)							
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
	0.00	0.00	14526635.44	2079823.48	39.991005	-109.431257	
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL	8965.00	495.36	1132.38	14527150.64	2080946.96	39.992365	-109.427215
- plan hits target center							
Shape							
Circle (Radius: 25.00)							



SECTION DETAILS										
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
	1300.00	20.00	66.37	1279.82	69.24	158.29	2.00	66.37	172.77	
	3903.49	20.00	66.37	3726.30	426.11	974.09	0.00	0.00	1063.21	
	4903.49	0.00	0.00	4706.11	495.36	1132.38	2.00	180.00	1235.98	
	9162.38	0.00	0.00	8965.00	495.36	1132.38	0.00	0.00	1235.98	PBHL_NBU 922-34K1BS
FORMATION TOP DETAILS					PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 34 T9S R22E System Datum: Mean Sea Level					
TVDPath	MDPath	Formation								
1189.00	1203.92	GREENRIVER								
1503.00	1537.51	BIRDSNEST								
1950.00	2013.20	MAHOGANY								
4375.00	4571.64	WASATCH								
6718.00	6915.38	MESAVERDE								
8964.99	9162.37	SEGO								
CASING DETAILS										
				TVD	MD	Name	Size			
				2400.00	2492.08	8 5/8"	8.625			



RECEIVED:



Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

NBU 922-34L PAD

NBU 922-34K1BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

15 November, 2012





Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34K1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4984 & KB 4 @ 4993.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4984 & KB 4 @ 4993.00ft (ASSUMED)
Site:	NBU 922-34L PAD	North Reference:	True
Well:	NBU 922-34K1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-34L PAD, SECTION 34 T9S R22E			
Site Position:		Northing:	14,526,650.96 usft	Latitude: 39.991050
From:	Lat/Long	Easting:	2,079,771.90 usft	Longitude: -109.431440
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 1.01 °

Well	NBU 922-34K1BS, 2078 FSL 1019 FWL					
Well Position	+N/-S	-16.43 ft	Northing:	14,526,635.44 usft	Latitude:	39.991005
	+E/-W	51.30 ft	Easting:	2,079,823.48 usft	Longitude:	-109.431257
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,989.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/15/12	10.85	65.83	52,184

Design	PLAN #1 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	66.37

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	66.37	1,279.82	69.24	158.29	2.00	2.00	0.00	66.37	
3,903.49	20.00	66.37	3,726.30	426.11	974.09	0.00	0.00	0.00	0.00	
4,903.49	0.00	0.00	4,706.11	495.36	1,132.38	2.00	-2.00	0.00	180.00	
9,162.38	0.00	0.00	8,965.00	495.36	1,132.38	0.00	0.00	0.00	0.00	PBHL_NBU 922-34K



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34K1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4984 & KB 4 @ 4993.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4984 & KB 4 @ 4993.00ft (ASSUMED)
Site:	NBU 922-34L PAD	North Reference:	True
Well:	NBU 922-34K1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	66.37	399.98	0.70	1.60	1.75	2.00	2.00	0.00
500.00	4.00	66.37	499.84	2.80	6.39	6.98	2.00	2.00	0.00
600.00	6.00	66.37	599.45	6.29	14.38	15.69	2.00	2.00	0.00
700.00	8.00	66.37	698.70	11.17	25.54	27.88	2.00	2.00	0.00
800.00	10.00	66.37	797.47	17.44	39.87	43.52	2.00	2.00	0.00
900.00	12.00	66.37	895.62	25.09	57.35	62.60	2.00	2.00	0.00
1,000.00	14.00	66.37	993.06	34.10	77.96	85.10	2.00	2.00	0.00
1,100.00	16.00	66.37	1,089.64	44.48	101.67	110.98	2.00	2.00	0.00
1,200.00	18.00	66.37	1,185.27	56.19	128.46	140.21	2.00	2.00	0.00
1,203.92	18.08	66.37	1,189.00	56.68	129.57	141.43	2.00	2.00	0.00
GREENRIVER									
1,300.00	20.00	66.37	1,279.82	69.24	158.29	172.77	2.00	2.00	0.00
Start 2603.49 hold at 1300.00 MD									
1,400.00	20.00	66.37	1,373.78	82.95	189.62	206.97	0.00	0.00	0.00
1,500.00	20.00	66.37	1,467.75	96.66	220.96	241.17	0.00	0.00	0.00
1,537.51	20.00	66.37	1,503.00	101.80	232.71	254.00	0.00	0.00	0.00
BIRDSNEST									
1,600.00	20.00	66.37	1,561.72	110.36	252.29	275.37	0.00	0.00	0.00
1,700.00	20.00	66.37	1,655.69	124.07	283.63	309.58	0.00	0.00	0.00
1,800.00	20.00	66.37	1,749.66	137.78	314.96	343.78	0.00	0.00	0.00
1,900.00	20.00	66.37	1,843.63	151.49	346.30	377.98	0.00	0.00	0.00
2,000.00	20.00	66.37	1,937.60	165.19	377.63	412.18	0.00	0.00	0.00
2,013.20	20.00	66.37	1,950.00	167.00	381.77	416.70	0.00	0.00	0.00
MAHOGANY									
2,100.00	20.00	66.37	2,031.57	178.90	408.97	446.38	0.00	0.00	0.00
2,200.00	20.00	66.37	2,125.54	192.61	440.30	480.59	0.00	0.00	0.00
2,300.00	20.00	66.37	2,219.51	206.32	471.64	514.79	0.00	0.00	0.00
2,400.00	20.00	66.37	2,313.48	220.02	502.97	548.99	0.00	0.00	0.00
2,492.08	20.00	66.37	2,400.00	232.65	531.82	580.48	0.00	0.00	0.00
8 5/8"									
2,500.00	20.00	66.37	2,407.45	233.73	534.31	583.19	0.00	0.00	0.00
2,600.00	20.00	66.37	2,501.42	247.44	565.64	617.39	0.00	0.00	0.00
2,700.00	20.00	66.37	2,595.39	261.15	596.98	651.60	0.00	0.00	0.00
2,800.00	20.00	66.37	2,689.35	274.85	628.31	685.80	0.00	0.00	0.00
2,900.00	20.00	66.37	2,783.32	288.56	659.65	720.00	0.00	0.00	0.00
3,000.00	20.00	66.37	2,877.29	302.27	690.98	754.20	0.00	0.00	0.00
3,100.00	20.00	66.37	2,971.26	315.98	722.32	788.40	0.00	0.00	0.00
3,200.00	20.00	66.37	3,065.23	329.68	753.65	822.61	0.00	0.00	0.00
3,300.00	20.00	66.37	3,159.20	343.39	784.99	856.81	0.00	0.00	0.00
3,400.00	20.00	66.37	3,253.17	357.10	816.32	891.01	0.00	0.00	0.00
3,500.00	20.00	66.37	3,347.14	370.81	847.66	925.21	0.00	0.00	0.00
3,600.00	20.00	66.37	3,441.11	384.51	878.99	959.41	0.00	0.00	0.00
3,700.00	20.00	66.37	3,535.08	398.22	910.33	993.62	0.00	0.00	0.00
3,800.00	20.00	66.37	3,629.05	411.93	941.66	1,027.82	0.00	0.00	0.00
3,900.00	20.00	66.37	3,723.02	425.64	973.00	1,062.02	0.00	0.00	0.00
3,903.49	20.00	66.37	3,726.30	426.11	974.09	1,063.21	0.00	0.00	0.00
Start Drop -2.00									
4,000.00	18.07	66.37	3,817.52	438.73	1,002.93	1,094.69	2.00	-2.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34K1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4984 & KB 4 @ 4993.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4984 & KB 4 @ 4993.00ft (ASSUMED)
Site:	NBU 922-34L PAD	North Reference:	True
Well:	NBU 922-34K1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,100.00	16.07	66.37	3,913.11	450.49	1,029.82	1,124.04	2.00	-2.00	0.00
4,200.00	14.07	66.37	4,009.67	460.91	1,053.64	1,150.04	2.00	-2.00	0.00
4,300.00	12.07	66.37	4,107.08	469.98	1,074.35	1,172.65	2.00	-2.00	0.00
4,400.00	10.07	66.37	4,205.21	477.67	1,091.94	1,191.85	2.00	-2.00	0.00
4,500.00	8.07	66.37	4,303.95	483.99	1,106.39	1,207.61	2.00	-2.00	0.00
4,571.64	6.64	66.37	4,375.00	487.66	1,114.79	1,216.78	2.00	-2.00	0.00
WASATCH									
4,600.00	6.07	66.37	4,403.19	488.92	1,117.66	1,219.92	2.00	-2.00	0.00
4,700.00	4.07	66.37	4,502.79	492.46	1,125.76	1,228.76	2.00	-2.00	0.00
4,800.00	2.07	66.37	4,602.64	494.61	1,130.66	1,234.11	2.00	-2.00	0.00
4,900.00	0.07	66.37	4,702.62	495.36	1,132.37	1,235.98	2.00	-2.00	0.00
4,903.49	0.00	0.00	4,706.11	495.36	1,132.38	1,235.98	2.00	-2.00	0.00
Start 4258.89 hold at 4903.49 MD									
5,000.00	0.00	0.00	4,802.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
5,100.00	0.00	0.00	4,902.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
5,200.00	0.00	0.00	5,002.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
5,300.00	0.00	0.00	5,102.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
5,400.00	0.00	0.00	5,202.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
5,500.00	0.00	0.00	5,302.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
5,600.00	0.00	0.00	5,402.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
5,700.00	0.00	0.00	5,502.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
5,800.00	0.00	0.00	5,602.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
5,900.00	0.00	0.00	5,702.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
6,000.00	0.00	0.00	5,802.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
6,100.00	0.00	0.00	5,902.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
6,200.00	0.00	0.00	6,002.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
6,300.00	0.00	0.00	6,102.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
6,400.00	0.00	0.00	6,202.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
6,500.00	0.00	0.00	6,302.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
6,600.00	0.00	0.00	6,402.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
6,700.00	0.00	0.00	6,502.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
6,800.00	0.00	0.00	6,602.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
6,900.00	0.00	0.00	6,702.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
6,915.38	0.00	0.00	6,718.00	495.36	1,132.38	1,235.98	0.00	0.00	0.00
MESAVERDE									
7,000.00	0.00	0.00	6,802.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
7,100.00	0.00	0.00	6,902.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
7,200.00	0.00	0.00	7,002.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
7,300.00	0.00	0.00	7,102.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
7,400.00	0.00	0.00	7,202.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
7,500.00	0.00	0.00	7,302.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
7,600.00	0.00	0.00	7,402.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
7,700.00	0.00	0.00	7,502.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
7,800.00	0.00	0.00	7,602.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
7,900.00	0.00	0.00	7,702.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
8,000.00	0.00	0.00	7,802.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
8,100.00	0.00	0.00	7,902.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
8,200.00	0.00	0.00	8,002.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
8,300.00	0.00	0.00	8,102.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
8,400.00	0.00	0.00	8,202.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
8,500.00	0.00	0.00	8,302.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
8,600.00	0.00	0.00	8,402.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
8,700.00	0.00	0.00	8,502.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-34K1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4984 & KB 4 @ 4993.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4984 & KB 4 @ 4993.00ft (ASSUMED)
Site:	NBU 922-34L PAD	North Reference:	True
Well:	NBU 922-34K1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,602.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
8,900.00	0.00	0.00	8,702.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
9,000.00	0.00	0.00	8,802.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
9,100.00	0.00	0.00	8,902.62	495.36	1,132.38	1,235.98	0.00	0.00	0.00
9,162.37	0.00	0.00	8,964.99	495.36	1,132.38	1,235.98	0.00	0.00	0.00
SEGO									
9,162.38	0.00	0.00	8,965.00	495.36	1,132.38	1,235.98	0.00	0.00	0.00
PBHL_NBU 922-34K1BS									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-34K1BS - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,965.00	495.36	1,132.38	14,527,150.65	2,080,946.96	39.992365	-109.427215

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,492.08	2,400.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,203.92	1,189.00	GREENRIVER			
1,537.51	1,503.00	BIRDSNEST			
2,013.20	1,950.00	MAHOGANY			
4,571.64	4,375.00	WASATCH			
6,915.38	6,718.00	MESAVERDE			
9,162.37	8,964.99	SEGO		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	69.24	158.29	Start 2603.49 hold at 1300.00 MD
3,903.49	3,726.30	426.11	974.09	Start Drop -2.00
4,903.49	4,706.11	495.36	1,132.38	Start 4258.89 hold at 4903.49 MD
9,162.38	8,965.00	495.36	1,132.38	TD at 9162.38

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
 NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
 NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations
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Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-34L PAD

<u>API #</u>	<u>NBU 922-34F4CS</u>	
	Surface: 2085 FSL / 1026 FWL	NWSW
	BHL: 2408 FNL / 2151 FWL	SESW
<u>API #</u>	<u>NBU 922-34J1BS</u>	
	Surface: 2057 FSL / 998 FWL	NWSW
	BHL: 2414 FSL / 1821 FEL	NWSE
<u>API #</u>	<u>NBU 922-34J1CS</u>	
	Surface: 2050 FSL / 991 FWL	NWSW
	BHL: 2082 FSL / 1821 FEL	NWSE
<u>API #</u>	<u>NBU 922-34J4BS</u>	
	Surface: 2028 FSL / 970 FWL	NWSW
	BHL: 1749 FSL / 1822 FEL	NWSE
<u>API #</u>	<u>NBU 922-34K1BS</u>	
	Surface: 2078 FSL / 1019 FWL	NWSW
	BHL: 2574 FSL / 2152 FWL	NESW
<u>API #</u>	<u>NBU 922-34K1CS</u>	
	Surface: 2064 FSL / 1005 FWL	NWSW
	BHL: 2242 FSL / 2152 FWL	NESW
<u>API #</u>	<u>NBU 922-34K4BS</u>	
	Surface: 2035 FSL / 977 FWL	NWSW
	BHL: 1910 FSL / 2152 FWL	NESW
<u>API #</u>	<u>NBU 922-34L1CS</u>	
	Surface: 2071 FSL / 1012 FWL	NWSW
	BHL: 2107 FSL / 1021 FWL	NWSW

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations
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An on-site meeting was held on August 16-17, 2012. Present were:

- Dave Gordon, Tyler Cox, Aaron Roe and Brian Barnett - BLM;
- Jessi Brunson - USFWS;
- Bill Knapp - ICF Consulting;
- Jacob Dunham - 609 Consulting;
- Mitch Batty - Timberline Engineering & Land Surveying, Inc.; and
- Gina Becker, Charles Chase, Lindsey Frazier, Doyle Holmes, Randy Townley and Casey McKee- Kerr-McGee

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The following segments are "on-lease"

±50' (0.01 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, from the edge of pad to the T-intersection in NW/4 SW/4. Please refer to Topo B.

C. Location of Existing Wells:

Please refer to Topo C for exiting wells.

D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will expand the existing pad for the NBU 80V, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on of pad November 20, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is ±6,225' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±235' (0.04 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, BLM surface, New 10" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
 NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
 NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations

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- ±400' (0.1 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, BLM surface, New 10" buried gas gathering pipeline from the edge of the pad to tie-in to the proposed buried 12" gas gathering pipeline at the NBU 922-34F Pad intersection. This pipeline will be used concurrently with the NBU 922-34M Pad. Please refer to Exhibit A, Line 13.
- ±1,395' (0.3 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077 and UTU-01191-A, BLM surface, New 12" buried gas gathering pipeline from the NBU 922-34F Pad pipeline intersection to tie-in to the proposed buried 16" gas gathering pipeline at the NBU 922-33H Pad intersection. This pipeline will be used concurrently with the NBU 922-34E, NBU 922-34F and NBU 922-34M Pads. Please refer to Exhibit A, Lines 12 and 11.

The following segments require a ROW. Anadarko Uintah Midstream (AUM) will apply for an SF-299/POD under separate cover. Listed below is the gas gathering pipeline distances:

- ±4,195' (0.8 miles) – Section 33 T9S R22E and Section 3 and 4 T10S R22E – On-lease UTU 01191-A and UTU 01191, BLM surface, New 16" buried gas gathering pipeline from the NBU 922-33H Pad pipeline intersection to the existing 16" buried gas pipeline in 1022-3 at the NBU 1022-3E Pad intersection. Please refer to Exhibit A- Line 10.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is ±6,225' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±235' (0.04 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±400' (0.1 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the proposed buried 6" liquid gathering pipeline at the NBU 922-34F Pad intersection. This pipeline will be used concurrently with the NBU 922-34M Pad. Please refer to Exhibit B, Line 13.
- ±1,395' (0.3 miles) – Section 34 T9S R22E (NW/4 SW/4) – On-lease UTU-0149077 and UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-34F Pad pipeline intersection to tie-in to the proposed buried 6" liquid gathering pipeline at the NBU 922-33H Pad intersection. This pipeline will be used concurrently with the NBU 922-34E, NBU 922-34F and NBU 922-34M Pads. Please refer to Exhibit B, Lines 12 and 11.
- ±4,195' (0.8 miles) – Section 33 T9S R22E and Section 3 and 4 T10S R22E – On-lease UTU 01191-A and UTU 01191, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-33H Pad pipeline intersection to the existing 6" buried liquid pipeline in 1022-3 at the NBU 1022-3E Pad intersection. This pipeline will be used concurrently with the NBU 922-33F, NBU 922-33H, NBU 922-34E, NBU 922-34F, NBU 922-34M and NBU 922-33P Pads. Please refer to Exhibit B, Line 10.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations
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Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Water will be hauled to location over the roads marked on Maps A and B.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations
5 of 6

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:

Cultural and Paleontological Resources

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Resource Reports:

A Class I literature survey was completed on September 21, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC-12-264.

A paleontological reconnaissance survey was completed on September 20, 2012 by SWCA Environmental Consultants. For additional details please refer to report SWCA-UT12-14314-178.

Biological field survey was completed on August 25, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-845.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-34F4CS / NBU 922-34J1BS / NBU 922-34J1CS
NBU 922-34J4BS / NBU 922-34K1BS / NBU 922-34K1CS /
NBU 922-34K4BS / NBU 922-34L1CS

Surface Use Plan of Operations
6 of 6

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Senior Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.



Gina T. Becker

November 20, 2012
Date

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

January 15, 2013

Memorandum

To: Assistant Field Office Manager Minerals,
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-17C PAD

43-047-53476	NBU 921-17C4CS	Sec 17 T09S R21E 0629 FNL 2001 FWL
	BHL	Sec 17 T09S R21E 1074 FNL 2155 FWL

43-047-53483	NBU 921-17F1BS	Sec 17 T09S R21E 0634 FNL 1993 FWL
	BHL	Sec 17 T09S R21E 1405 FNL 2154 FWL

NBU 921-17D PAD

43-047-53477	NBU 921-17E4BS	Sec 17 T09S R21E 0953 FNL 0416 FWL
	BHL	Sec 17 T09S R21E 2231 FNL 0825 FWL

43-047-53478	NBU 921-17E1CS	Sec 17 T09S R21E 0959 FNL 0424 FWL
	BHL	Sec 17 T09S R21E 1901 FNL 0825 FWL

43-047-53479	NBU 921-17E1BS	Sec 17 T09S R21E 0965 FNL 0432 FWL
	BHL	Sec 17 T09S R21E 1570 FNL 0826 FWL

43-047-53480	NBU 921-17D4BS	Sec 17 T09S R21E 0982 FNL 0457 FWL
	BHL	Sec 17 T09S R21E 0909 FNL 0827 FWL

43-047-53481	NBU 921-17D1CS	Sec 17 T09S R21E 0976 FNL 0449 FWL
	BHL	Sec 17 T09S R21E 0578 FNL 0827 FWL

43-047-53482	NBU 921-17D1BS	Sec 17 T09S R21E 0970 FNL 0440 FWL
	BHL	Sec 17 T09S R21E 0148 FNL 0834 FWL

NBU 922-34F PAD

43-047-53484	NBU 922-34G1CS	Sec 34 T09S R22E 2030 FNL 1588 FWL
	BHL	Sec 34 T09S R22E 1913 FNL 1820 FEL

43-047-53485	NBU 922-34G1BS	Sec 34 T09S R22E 2029 FNL 1578 FWL
	BHL	Sec 34 T09S R22E 1580 FNL 1820 FEL

43-047-53486	NBU 922-34F4BS	Sec 34 T09S R22E 2032 FNL 1598 FWL
	BHL	Sec 34 T09S R22E 2076 FNL 2151 FWL

RECEIVED: January 15, 2013

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-53492	NBU 922-34B1CS	Sec 34 T09S R22E 2023 FNL 1539 FWL
	BHL	Sec 34 T09S R22E 0581 FNL 1820 FEL
43-047-53493	NBU 922-34B4BS	Sec 34 T09S R22E 2024 FNL 1549 FWL
	BHL	Sec 34 T09S R22E 0914 FNL 1820 FEL
43-047-53498	NBU 922-34B4CS	Sec 34 T09S R22E 2027 FNL 1568 FWL
	BHL	Sec 34 T09S R22E 1247 FNL 1820 FEL
43-047-53500	NBU 922-34F1BS	Sec 34 T09S R22E 2021 FNL 1529 FWL
	BHL	Sec 34 T09S R22E 1412 FNL 2151 FWL
43-047-53505	NBU 922-34F1CS	Sec 34 T09S R22E 2026 FNL 1559 FWL
	BHL	Sec 34 T09S R22E 1744 FNL 2151 FWL
NBU 922-34E PAD		
43-047-53487	NBU 922-34C4BS	Sec 34 T09S R22E 1991 FNL 0662 FWL
	BHL	Sec 34 T09S R22E 0747 FNL 2150 FWL
43-047-53488	NBU 922-34E1CS	Sec 34 T09S R22E 2001 FNL 0663 FWL
	BHL	Sec 34 T09S R22E 1896 FNL 0825 FWL
43-047-53489	NBU 922-34E4BS	Sec 34 T09S R22E 2021 FNL 0666 FWL
	BHL	Sec 34 T09S R22E 2228 FNL 0825 FWL
43-047-53490	NBU 922-34E4CS	Sec 34 T09S R22E 2040 FNL 0670 FWL
	BHL	Sec 34 T09S R22E 2559 FNL 0825 FWL
43-047-53491	NBU 922-34L1AS	Sec 34 T09S R22E 2030 FNL 0668 FWL
	BHL	Sec 34 T09S R22E 2406 FSL 1156 FWL
NBU 922-34L PAD		
43-047-53497	NBU 922-34L1CS	Sec 34 T09S R22E 2071 FSL 1012 FWL
	BHL	Sec 34 T09S R22E 2107 FSL 1021 FWL
43-047-53499	NBU 922-34K4BS	Sec 34 T09S R22E 2035 FSL 0977 FWL
	BHL	Sec 34 T09S R22E 1910 FSL 2152 FWL
43-047-53501	NBU 922-34J1BS	Sec 34 T09S R22E 2057 FSL 0998 FWL
	BHL	Sec 34 T09S R22E 2414 FSL 1821 FEL
43-047-53502	NBU 922-34J4BS	Sec 34 T09S R22E 2028 FSL 0970 FWL
	BHL	Sec 34 T09S R22E 1749 FSL 1822 FEL
43-047-53503	NBU 922-34K1CS	Sec 34 T09S R22E 2064 FSL 1005 FWL
	BHL	Sec 34 T09S R22E 2242 FSL 2152 FWL
43-047-53504	NBU 922-34K1BS	Sec 34 T09S R22E 2078 FSL 1019 FWL
	BHL	Sec 34 T09S R22E 2574 FSL 2152 FWL
43-047-53506	NBU 922-34F4CS	Sec 34 T09S R22E 2085 FSL 1026 FWL
	BHL	Sec 34 T09S R22E 2408 FNL 2151 FWL
43-047-53507	NBU 922-34J1CS	Sec 34 T09S R22E 2050 FSL 0991 FWL
	BHL	Sec 34 T09S R22E 2082 FSL 1821 FEL
NBU 922-34M PAD		
43-047-53508	NBU 922-34J4CS	Sec 34 T09S R22E 1203 FSL 0497 FWL
	BHL	Sec 34 T09S R22E 1416 FSL 1822 FEL
43-047-53509	NBU 922-34K4CS	Sec 34 T09S R22E 1213 FSL 0499 FWL
	BHL	Sec 34 T09S R22E 1597 FSL 2094 FWL
43-047-53510	NBU 922-34L2DS	Sec 34 T09S R22E 1232 FSL 0505 FWL
	BHL	Sec 34 T09S R22E 2021 FSL 0407 FWL
43-047-53511	NBU 922-34L3DS	Sec 34 T09S R22E 1222 FSL 0502 FWL
	BHL	Sec 34 T09S R22E 1587 FSL 0428 FWL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-53512	NBU 922-34M1BS	Sec 34 T09S R22E 1194 FSL 0493 FWL
	BHL	Sec 34 T09S R22E 1054 FSL 1135 FWL
NBU 922-34M4 PAD		
43-047-53513	NBU 922-34M4BS	Sec 34 T09S R22E 0325 FSL 0787 FWL
	BHL	Sec 34 T09S R22E 0415 FSL 0826 FWL
43-047-53514	NBU 922-34M4CS	Sec 34 T09S R22E 0295 FSL 0747 FWL
	BHL	Sec 34 T09S R22E 0115 FSL 0716 FWL
43-047-53515	NBU 922-34N1CS	Sec 34 T09S R22E 0319 FSL 0779 FWL
	BHL	Sec 34 T09S R22E 0913 FSL 2153 FWL
43-047-53516	NBU 922-34N4BS	Sec 34 T09S R22E 0307 FSL 0763 FWL
	BHL	Sec 34 T09S R22E 0581 FSL 2153 FWL
43-047-53517	NBU 922-34N4CS	Sec 34 T09S R22E 0301 FSL 0755 FWL
	BHL	Sec 34 T09S R22E 0201 FSL 2140 FWL
43-047-53518	NBU 922-34O1BS	Sec 34 T09S R22E 0313 FSL 0771 FWL
	BHL	Sec 34 T09S R22E 1083 FSL 1822 FEL
NBU 921-17G PAD		
43-047-53519	NBU 921-17B4CS	Sec 17 T09S R21E 1527 FNL 2258 FEL
	BHL	Sec 17 T09S R21E 1239 FNL 1823 FEL
43-047-53520	NBU 921-17F1CS	Sec 17 T09S R21E 1529 FNL 2288 FEL
	BHL	Sec 17 T09S R21E 1736 FNL 2152 FWL
43-047-53521	NBU 921-17F4BS	Sec 17 T09S R21E 1528 FNL 2278 FEL
	BHL	Sec 17 T09S R21E 2066 FNL 2151 FWL
43-047-53523	NBU 921-17G4BS	Sec 17 T09S R21E 1528 FNL 2268 FEL
	BHL	Sec 17 T09S R21E 2106 FNL 1832 FEL
NBU 921-17H PAD		
43-047-53522	NBU 921-17A4BS	Sec 17 T09S R21E 2074 FNL 0557 FEL
	BHL	Sec 17 T09S R21E 0744 FNL 0496 FEL
43-047-53524	NBU 921-17A4CS	Sec 17 T09S R21E 2076 FNL 0547 FEL
	BHL	Sec 17 T09S R21E 1074 FNL 0496 FEL
43-047-53525	NBU 921-17H1BS	Sec 17 T09S R21E 2078 FNL 0538 FEL
	BHL	Sec 17 T09S R21E 1405 FNL 0496 FEL
43-047-53526	NBU 921-17H1CS	Sec 17 T09S R21E 2080 FNL 0528 FEL
	BHL	Sec 17 T09S R21E 1736 FNL 0495 FEL
43-047-53527	NBU 921-17H4CS	Sec 17 T09S R21E 2082 FNL 0518 FEL
	BHL	Sec 17 T09S R21E 2495 FNL 0489 FEL

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
 DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
 ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
 Date: 2013.01.15 14:15:41 -0700

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:1-15-13

RECEIVED: January 15, 2013

API	Well Name	Surface Location			
43-047-53476	NBU 921-17C4CS	Sec 17	T09S	R21E	0629 FNL 2001 FWL
43-047-53477	NBU 921-17E4BS	Sec 17	T09S	R21E	0953 FNL 0416 FWL
43-047-53478	NBU 921-17E1CS	Sec 17	T09S	R21E	0959 FNL 0424 FWL
43-047-53479	NBU 921-17E1BS	Sec 17	T09S	R21E	0965 FNL 0432 FWL
43-047-53480	NBU 921-17D4BS	Sec 17	T09S	R21E	0982 FNL 0457 FWL
43-047-53481	NBU 921-17D1CS	Sec 17	T09S	R21E	0976 FNL 0449 FWL
43-047-53482	NBU 921-17D1BS	Sec 17	T09S	R21E	0970 FNL 0440 FWL
43-047-53483	NBU 921-17F1BS	Sec 17	T09S	R21E	0634 FNL 1993 FWL
43-047-53484	NBU 922-34G1CS	Sec 34	T09S	R22E	2030 FNL 1588 FWL
43-047-53485	NBU 922-34G1BS	Sec 34	T09S	R22E	2029 FNL 1578 FWL
43-047-53486	NBU 922-34F4BS	Sec 34	T09S	R22E	2032 FNL 1598 FWL
43-047-53487	NBU 922-34C4BS	Sec 34	T09S	R22E	1991 FNL 0662 FWL
43-047-53488	NBU 922-34E1CS	Sec 34	T09S	R22E	2001 FNL 0663 FWL
43-047-53489	NBU 922-34E4BS	Sec 34	T09S	R22E	2021 FNL 0666 FWL
43-047-53490	NBU 922-34E4CS	Sec 34	T09S	R22E	2040 FNL 0670 FWL
43-047-53491	NBU 922-34L1AS	Sec 34	T09S	R22E	2030 FNL 0668 FWL
43-047-53492	NBU 922-34B1CS	Sec 34	T09S	R22E	2023 FNL 1539 FWL
43-047-53493	NBU 922-34B4BS	Sec 34	T09S	R22E	2024 FNL 1549 FWL
43-047-53497	NBU 922-34L1CS	Sec 34	T09S	R22E	2071 FSL 1012 FWL
43-047-53498	NBU 922-34B4CS	Sec 34	T09S	R22E	2027 FNL 1568 FWL
43-047-53499	NBU 922-34K4BS	Sec 34	T09S	R22E	2035 FSL 0977 FWL
43-047-53500	NBU 922-34F1BS	Sec 34	T09S	R22E	2021 FNL 1529 FWL
43-047-53501	NBU 922-34J1BS	Sec 34	T09S	R22E	2057 FSL 0998 FWL
43-047-53502	NBU 922-34J4BS	Sec 34	T09S	R22E	2028 FSL 0970 FWL
43-047-53503	NBU 922-34K1CS	Sec 34	T09S	R22E	2064 FSL 1005 FWL
43-047-53504	NBU 922-34K1BS	Sec 34	T09S	R22E	2078 FSL 1019 FWL
43-047-53505	NBU 922-34F1CS	Sec 34	T09S	R22E	2026 FNL 1559 FWL
43-047-53506	NBU 922-34F4CS	Sec 34	T09S	R22E	2085 FSL 1026 FWL
43-047-53507	NBU 922-34J1CS	Sec 34	T09S	R22E	2050 FSL 0991 FWL
43-047-53508	NBU 922-34J4CS	Sec 34	T09S	R22E	1203 FSL 0497 FWL
43-047-53509	NBU 922-34K4CS	Sec 34	T09S	R22E	1213 FSL 0499 FWL
43-047-53510	NBU 922-34L2DS	Sec 34	T09S	R22E	1232 FSL 0505 FWL
43-047-53511	NBU 922-34L3DS	Sec 34	T09S	R22E	1222 FSL 0502 FWL
43-047-53512	NBU 922-34M1BS	Sec 34	T09S	R22E	1194 FSL 0493 FWL
43-047-53513	NBU 922-34M4BS	Sec 34	T09S	R22E	0325 FSL 0787 FWL
43-047-53514	NBU 922-34M4CS	Sec 34	T09S	R22E	0295 FSL 0747 FWL
43-047-53515	NBU 922-34N1CS	Sec 34	T09S	R22E	0319 FSL 0779 FWL
43-047-53516	NBU 922-34N4BS	Sec 34	T09S	R22E	0307 FSL 0763 FWL
43-047-53517	NBU 922-34N4CS	Sec 34	T09S	R22E	0301 FSL 0755 FWL
43-047-53518	NBU 922-34O1BS	Sec 34	T09S	R22E	0313 FSL 0771 FWL
43-047-53519	NBU 921-17B4CS	Sec 17	T09S	R21E	1527 FNL 2258 FEL
43-047-53520	NBU 921-17F1CS	Sec 17	T09S	R21E	1529 FNL 2288 FEL
43-047-53521	NBU 921-17F4BS	Sec 17	T09S	R21E	1528 FNL 2278 FEL
43-047-53522	NBU 921-17A4BS	Sec 17	T09S	R21E	2074 FNL 0557 FEL
43-047-53523	NBU 921-17G4BS	Sec 17	T09S	R21E	1528 FNL 2268 FEL
43-047-53524	NBU 921-17A4CS	Sec 17	T09S	R21E	2076 FNL 0547 FEL

API	Well Name	Surface Location			
		Sec 17	T09S	R21E	
43-047-53525	NBU 921-17H1BS	Sec 17	T09S	R21E	2078 FNL 0538 FEL
43-047-53526	NBU 921-17H1CS	Sec 17	T09S	R21E	2080 FNL 0528 FEL
43-047-53527	NBU 921-17H4CS	Sec 17	T09S	R21E	2082 FNL 0518 FEL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 1/3/2013

API NO. ASSIGNED: 43047535040000

WELL NAME: NBU 922-34K1BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: NWSW 34 090S 220E

Permit Tech Review: ☒

SURFACE: 2078 FSL 1019 FWL

Engineering Review: ☒

BOTTOM: 2574 FSL 2152 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.99087

LONGITUDE: -109.43188

UTM SURF EASTINGS: 633875.00

NORTHINGS: 4427921.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0149077

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: FEDERAL - WYB000291☐ Potash☒ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-8496☐ RDCC Review:☐ Fee Surface Agreement☒ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit: NATURAL BUTTES

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 173-14

Effective Date: 12/2/1999

Siting: Suspends General Siting

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason

RECEIVED: January 30, 2013



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 922-34K1BS
API Well Number: 43047535040000
Lease Number: UTU-0149077
Surface Owner: FEDERAL
Approval Date: 1/30/2013

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read 'John Rogers', written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

DEC 04 2012

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0149077
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE		7. If Unit or CA Agreement, Name and No. 891008900A
Contact: GINA T BECKER Email: GINA.BECKER@ANADARKO.COM		8. Lease Name and Well No. NBU 922-34K1BS
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	9. API Well No. U3-047-53504
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSW 2078FSL 1019FWL 39.990970 N Lat, 109.431940 W Lon At proposed prod. zone NESW 2574FSL 2152FWL 39.992331 N Lat, 109.427898 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 50 MILES SOUTHEAST OF VERNAL, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 34 T9S R22E Mer SLB SME: BLM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1500	16. No. of Acres in Lease 600.00	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 873	19. Proposed Depth 9162 MD 8965 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4989 GL	22. Approximate date work will start 07/01/2012	17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 12/04/2012
Title REGULATORY ANALYST II		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUN 04 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #161649 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 12/14/2012 (13JM0151)

RECEIVED

JUN 07 2013

BUREAU OF OIL, GAS & MINING

NOTICE OF APPROVAL

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

12 PPH 11/12/12



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas Onshore, LP
Well No: NBU 922-34K1BS
API No: 43-047-53504

Location: NSW, Sec. 34, T9S, R22E
Lease No: UTU-0149077
Agreement: Natural Butte

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
 - Air Quality
 - Soils
 - Vegetation: *Sclerocactus wetlandicus*
 - Wildlife: Colorado River Fish
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- Paleontological monitoring by a BLM permitted paleontologist is required for Well Pads 922-33A, 922-33D, 922-33E, 922-33H, and 922-33N; Access Road for 922-33E during all ground disturbing activities (BLM 2012b; BLM 2013c).
- Construction and development activities will be prohibited at the Well pads 922-34E, 922-34F, and 922-34L locations from 5/15 to 6/30 (BLM 2008a).
- Damage to livestock and livestock facilities would be reported as quickly as possible to the BLM and affected livestock operators. Operators would develop and employ prevention measures to

avoid damaging fences, gates, and cattle guards, including upgrading cattle guard gate widths and load-bearing requirements and fencing all open pits and cellars.

If partial or complete removal of a fence cannot be avoided, the fence would be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence would be braced and a cattle guard and gate installed per BLM guidance.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the 4.5 inch casing shall be brought up to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the Production Casing.
- Variances shall be granted as requested in Section 9 of the Drilling Program of the SOP.
- Gamma Ray Log shall be run from TD to the Surface.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-34K1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2078 FSL 1019 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 34 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047535040000
PHONE NUMBER: 720 929-6582		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/30/2014	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Kerr-McGee Oil & Gas Onshore, L. P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: November 18, 2013

By:

NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUMBER 720 929 6582	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/14/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047535040000

API: 43047535040000

Well Name: NBU 922-34K1BS

Location: 2078 FSL 1019 FWL QTR NWSW SEC 34 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 1/30/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Kay E. Kelly

Date: 11/14/2013

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

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PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/8/2014	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Spud well 01/08/2014 @ 11:00. Drill 24" conductor hole to 40', run 14" X .250 wall conductor pipe, cement with 81 sacks ready mix. Anticipated surface spud date and surface casing cement 02/22/2014.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 10, 2014		
NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/10/2014	

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10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UINTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/24/2014	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Drilled to 9,157 ft. in Quarter 2 of 2014.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 25, 2014		
NAME (PLEASE PRINT) Ila Beale		PHONE NUMBER 720 929-6408
SIGNATURE N/A		TITLE Staff Reg. Specialist
DATE 6/24/2014		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-34K1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2078 FSL 1019 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 34 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047535040000
PHONE NUMBER: 720 929-6100		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/11/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Started completing the well. Well TD at 9,157 ft. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 12, 2014		
NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUMBER 720 929 6582	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/11/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-34K1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2078 FSL 1019 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 34 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047535040000
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/17/2014	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE WELL IS TD AT 9,157'. WAITING ON COMPLETION OPERATIONS TO BEGIN. THANK YOU.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 17, 2014		
NAME (PLEASE PRINT) Kay E. Kelly		PHONE NUMBER 720 929 6582
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 12/17/2014		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0149077
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PHONE NUMBER: 720 929-6100		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/16/2015	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The NBU 922-34K1BS was placed on production 01/16/2015 after a new well completion. Producing from the MESAVERDE.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 23, 2015		
NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/19/2015	

RECEIVED: Feb. 13, 2015

28b. Production- Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio		

28c. Production- Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio		

29. Disposition of Gas (*Sold, used for fuel, vented, etc.*)

30. Summary of Porous Zones (include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers:

Formation	Top	Bottom	Descriptions, Contents, Etc.	Name	Top Meas. Depth
				GREEN RIVER	1181
				BIRD'S NEST	1572
				MAHOGANY	2082
				WASATCH	4591
				MESA VERDE	6911

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Doreen GreenTitle Regulatory Analyst II

Signature _____

Date 2/13/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

INSTRUCTIONS

General: This form is designed for submitting a complet and correct well completion/ recompletion report and log on all types of wells on Federal and Indian lease to a federal agency, pursuant to applicable federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

ROUTINE USES: : (1) Evaluate the equipment and procedures used during the drilling and completing/ recompleting of a well. (2) The review of geologic zones and formations encountered during drilling. (3) Analyse future applications to drill in light of data obtained and methods used. (4)(5) Information from record and or the record will be transferred to the appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/ recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/ recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyse operations and to compare equipment and procedures actually used with those proposed and approved. Response to this request is mandatory only if the operator elects to initiate drilling and completing/ recompleting operations on an oil and gas lease.

BLM would like you to know that you do not have to respond to this or any other Federal agency -sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W., Washington D.C. 20240

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 3/1/2014

End date: 5/18/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
3/1/2014	19:00 - 20:00	1.00	MIRU	01	E	P	58	CUT OFF ROTATING HEAD / RIG DOWN
	20:00 - 22:00	2.00	MIRU	01	C	P	58	CONDUCT JSA WITH TRUCKS TO SKID RIG / SKID RIG FROM NBU 922-34K4BS TO THE NBU 922-34K1BS, WELL 5 OF 8. HOWCROFT FIELD SERVICES HAD 2 TRUCKS 1 SWAMPER 1 PUSHER/SAFETY MAN
3/2/2014	22:00 - 0:00	2.00	MIRU	01	B	P	58	WELD ON ROTATING HEAD / RIG UP FLOW LINE
	0:00 - 1:00	1.00	MIRU	01	B	P	58	WELD ON ROTATING HEAD / RIG UP FLOW LINE
	1:00 - 1:30	0.50	MIRU	06	A	P	58	PICK UP BHA / MAKE UP BIT / INSTALL ROTATING HEAD RUBBER / AIR OUT PUMPS
	1:30 - 2:00	0.50	MIRU	23		P	58	PRESPOD SAFETY MEETING
	2:00 - 4:00	2.00	DRLSUR	02	B	P	58	DRILL 12 1/4 SURFACE HOLE F/ 49' TO 200' , 151' @ 151 FPH WOB = 8 TO 12K ROTARY RPM = 65 MUD MOTOR RPM = 111 TOTAL = 166 PUMPING 650 GPM @ 200 SPM STAND PIPE PRESSURE ON/OFF = 800/600 TORQUE ON/OFF = 2000/740 PU = 30 / SO = 28 / ROT = 28 PEAK ON LINE ARCHER ON LINE LOST RETURNS @104' 250 CFM
	4:00 - 6:00	2.00	DRLSUR	06	A	P	209	TRIP OUT OF HOLE LAY DOWN 12 1/4" BIT PICK UP 11" BIT AND DIRECTIONAL TOOLS /SCRIB AND TRIP IN HOLE.
	6:00 - 10:30	4.50	DRLSUR	06	C	X	209	***DRILL 11" SURFACE HOLE F/ 200' ,LOST RETURNS AND STARTED COMMUNICATING WITH HOLE NEXT TO THE ONE WE ARE DRILLING NBU922-34L1CS, COME OUT OF HOLE LAY DOWN BHA DIRECTIONAL TOOLS TRIP IN THE HOLE OPEN ENDED WITH DRILL PIPE 120'PREJOB SAFETY MEETING WITH PRO PETRO CEMENTERS & RIG CREW. MIXED AND PUMPED 200 SX OF PREMIUM CEMENT WITH 2% CACL2 & 1/4 LB/SX FLOCELE. 40.9 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. FLUID STARTED TO DROP, PUMP ADDITIONAL 125 SX. OF CEMENT 25.60 BBLS HOLDING CLEAR PIPE WITH FRESH WATER AND TRIP OUT OFHOLE. PUMPED 125 SX. OF CEMENT 25.60 BBLS OF CEMENT IN EACH OF OTHER HOLE CELLAR TO TRY TO STOP FRACTURE FROM LEAKING.
	10:30 - 12:00	1.50	DRLSUR	13	A	X	209	*** WAIT ON CEMENT
	12:00 - 14:30	2.50	DRLSUR	13	A	X	209	*** WAIT ON CEMENT
	14:30 - 15:00	0.50	DRLSUR	06	C	X	209	***PICK UP BIT MUD MOTOR AND TRIP IN HOLE
	15:00 - 15:30	0.50	DRLSUR	02	E	X	209	***TAG CEMENT AT 29' DRLG CEMENT FROM 29' TO 125' AND WENT TO BOTTOM 200'

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 3/1/2014

End date: 5/18/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	15:30 - 17:00	1.50	DRLSUR	06	A	X	209	***TRIP OUT OF HOLE LAY DOWN 12 1/4" BIT PICK UP 11" BIT AND DIRECTIONAL TOOLS /SCRIB AND TRIP IN HOLE.
	17:00 - 18:00	1.00	DRLSUR	02	B	P	209	DRILL 11" SURFACE HOLE F/ 200' TO 388',188' @ 188' FPH WOB = 15 TO 19K ROTARY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 533 GPM @ 174 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,560/1450 PU = 52 / SO = 45 / ROT = 49 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 13' = 11.61% 00' ABOVE & 00 ' RIGHT OF THE LINE NO HOLE ISSUES
	18:00 - 18:30	0.50	DRLSUR	07	C	P	397	CHANGE ROTATING HEAD RUBBER TO 4 1/2"
	18:30 - 0:00	5.50	DRLSUR	02	B	P	397	DRILL 11" SURFACE HOLE F/ 388' TO 921',533' @ 97' FPH WOB = 15 TO 19K ROTARY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 533 GPM @ 174 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,560/1450 PU = 50 / SO = 40 / ROT = 45 PEAK ON LINE ARCHER OFF LINE MUD WT 8.4 SLID 141' = 27.38% 1.11' ABOVE & 1.18' RIGHT OF THE LINE NO HOLE ISSUES
3/3/2014	0:00 - 6:00	6.00	DRLSUR	02	B	P	930	DRILL 11" SURFACE HOLE F/ 921' TO 1355',434' @ 72' FPH WOB = 15 TO 19K ROTARY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 533 GPM @ 174 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,560/1450 PU =62 / SO = 42 / ROT = 54 PEAK ON LINE ARCHER ON LINE MUD WT 8.4 SLID 145' = 32.51% .55' ABOVE & 3.15' RIGHT OF THE LINE NO HOLE ISSUES

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 3/1/2014

End date: 5/18/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	6:00 - 12:00	6.00	DRLSUR	02	B	P	1364	DRILL 11" SURFACE HOLE F/ 1355' TO 1982',627' @ 96' FPH WOB = 15 TO 19K ROTARY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 533 GPM @ 174 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,560/1450 PU =62 / SO = 42 / ROT = 54 PEAK ON LINE ARCHER ON LINE MUD WT 8.4 SLID 82' = 14.67% .32' ABOVE & 2.45' RIGHT OF THE LINE NO HOLE ISSUES
	12:00 - 12:30	0.50	DRLSUR	07	A	P	1991	RIG SERVICE
	12:30 - 18:00	5.50	DRLSUR	02	B	P	1991	DRILL 11" SURFACE HOLE F/ 1982' TO 2410',428' @ 78' FPH WOB = 15 TO 19K ROTARY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 533 GPM @ 174 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,560/1450 PU =62 / SO = 42 / ROT = 54 PEAK ON LINE ARCHER ON LINE MUD WT 8.4 SLID 191' = 36.94% .37' ABOVE & 1.87' RIGHT OF THE LINE NO HOLE ISSUES
	18:00 - 19:30	1.50	DRLSUR	02	B	P	2419	DRILL 11" SURFACE HOLE F/ 2410' TO 2506',96' @ 64' FPH WOB = 15 TO 19K ROTARY RPM = 60 / MUD MOTOR RPM = 111 / TOTAL = 171 PUMPING 533 GPM @ 174 SPM STAND PIPE PRESSURE ON/OFF = 900/650 TORQUE ON/OFF = 2,560/1450 PU =62 / SO = 42 / ROT = 54 PEAK ON LINE ARCHER ON LINE MUD WT 8.4 SLID 58' = 36.94% 2.55' LOW & 4.36' RIGHT OF THE LINE NO HOLE ISSUES
	19:30 - 21:30	2.00	DRLSUR	05	A	P	2515	CIRCULATE AND CONDITION HOLE /UNLOAD HOLE/PUMP 80 BBLs HEAVY KILL MUD / FLOW CHECK. (SAVED 4 HRS).
	21:30 - 0:00	2.50	DRLSUR	06	D	P	2515	LAY DOWN DRILL PIPE / BHA AND DIRECTIONAL TOOLS
3/4/2014	0:00 - 1:00	1.00	DRLSUR	12	A	P	2515	CHANGE OVER TO RUN CASING / LEVEL RIG, SWIVEL AND BOOM LOAD PIPE RACKS WITH CASING

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 3/1/2014

End date: 5/18/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	1:00 - 3:00	2.00	CSGSUR	12	C	P	2515	PREJOB SAFETY WITH RIG CREW. RAN 56 JTS OF 8 5/8", 28#, J-55, LT&C CASING WITH CTE FLOAT GUIDE SHOE AND BAFFLE PLATE LOCATED 1 JOINT ABOVE THE SHOE. 5 CENTRALIZERS SPACED 10' ABOVE THE SHOE, 2ND & 3RD COLLARS, AND EVERY THIRD COLLAR TO 2,123'. LANDED CASING SHOE AT 2,471'. BAFFLE PLATE @ 2,433'.
	3:00 - 3:30	0.50	CSGSUR	05	D	P	2515	CIRCULATE TO CLEAR CASING
	3:30 - 5:00	1.50	CSGSUR	12	E	P	2515	PREJOB SAFETY MEETING WITH PRO PETRO CEMENTERS & RIG CREW. TESTED LINES TO 3000 PSI PUMPED 30 BBLs FRESH WATER CLEARING SHOE RETURNS TO SURFACE MIXED AND PUMPED 20 BBL GEL WATER FLUSH AHEAD OF CEMENT MIXED AND PUMPED 300 SX OF PREMIUM LEAD CEMENT WITH 2% CACL2 & 1/4 LB/SX FLOCELE. 61.4 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. DROP PLUG ON FLY. DISPLACE CEMENT WITH 151.9 BBL FRESH WATER. RETURNS THROUGH OUT DISPLACEMENT. FINAL LIFT OF 250 PSI @ 3 BBL/MINUTE. BUMP PLUG WITH 750 PSI. HELD 500 PSI FOR 5 MINUTES. CHECK FLOAT. FLOAT HELD. TOP JOB # 1: PUMP CEMENT DOWN 1" PIPE WITH 150 SX PREMIUM CEMENT WITH 4% CACL2, 2% GR-3, & 1/4 LB/SX FLOCELE. 30.7 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX. RELEASE RIG 03/04/2014 @ 05:00 TOP JOB # 2: PUMP CEMENT DOWN 1" PIPE WITH 200 SX PREMIUM CEMENT WITH 4% CACL2, 2% GR-3, & 1/4 LB/SX FLOCELE. 40.9 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX TOP JOB # 3: PUMP CEMENT DOWN 1" PIPE WITH 250 SX PREMIUM CEMENT WITH 4% CACL2, 2% GR-3, & 1/4 LB/SX FLOCELE. 51.2 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX RELEASE CEMENTERS
5/14/2014	16:30 - 17:30	1.00	MIRU3	01	C	P	2515	RIG DOWN - SKID RIG - RIG UP
	17:30 - 19:30	2.00	PRPSPD	14	A	P	2515	NIPPLE UP BOP'S - CHOKE & KILL LINES / ROTATING HEAD & FLOW LINE
	19:30 - 23:00	3.50	PRPSPD	15	A	P	2515	HOLD SAFETY MEETING, RUN TEST ASSY, TEST BOP WITH A-1 TESTERS - TEST ANNULAR TO 250 PSI LOW/ 5 MIN 2500 PSI HIGH 10 MIN, PIPE & BLIND RAMS, FLOOR VALVES, IBOP, HCR VALVE, KILL LINE VALVES, TEST BOP'S, CHOKE MANIFOLD TO 250 PSI LOW/ 5 MIN - 5000 PSI HIGH 10 MIN, HOLD ACCUMULATOR FUNCTION TEST, TEST CSG 1500 PSI - 30 MIN, RIG DOWN
	23:00 - 0:00	1.00	PRPSPD	09	A	P	2515	SLIP & CUT 94' OF DRILLING LINE

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34K1BS BLUE			Spud date: 3/2/2014		
Project: UTAH-UINTAH		Site: NBU 922-34L PAD		Rig name no.: SST 57/57, CAPSTAR 310/310	
Event: DRILLING		Start date: 3/1/2014		End date: 5/18/2014	
Active datum: RKB @5,007.00usft (above Mean Sea Level)			UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
5/15/2014	0:00 - 0:30	0.50	PRPSPD	14	B	P	2515	INSTALL WEAR BUSHING
	0:30 - 1:00	0.50	PRPSPD	06	J	P	2515	PICK UP SCIENTIFIC 6 1/2", 1.5 BEND, HR, 7/8 LOBE, 3.3 STAGE 0.16 RPG MUD MOTOR, (SER #6449-NBR) - MAKE UP SECURITY MM65M PDC BIT, DRESSED WITH 6 X 15 JETS, (TFA = 1.035), SER #12042633 - INSTALL MWD TOOL, ORIENT & SCRIBE
	1:00 - 2:30	1.50	PRPSPD	06	A	P	2515	PICK UP DRILL PIPE & TRIP IN HOLE TO TOC AT 2375' / INSTALL ROTATING RUBBER
	2:30 - 3:30	1.00	DRLPRC	02	F	P	2515	DRILL CEMENT & FLOAT EQUIPMENT, CLEAN OUT TO 2515'
	3:30 - 15:30	12.00	DRLPRC	02	D	P	2515	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 2515' TO / 3888' = 1373' @ 114.4' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 6-12K STAND PIPE PRESSURE ON BOTTOM = 1600 STAND PIPE PRESSURE OFF BOTTOM = 1,200 STRING WEIGHT UP/DOWN/ROTATING = 140K / 70K / 98K DRAG = 42K HOLE IN GOOD CONDITION SLIDE 61% OF TIME AND 27% OF FOOTAGE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 8.5 PPG VISCOSITY = 27 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB 5-10' FLARE WHILE DRILLING OFF AND ON - HAD GAS AS SOON AS DRILLED THROUGH CASING SHOE
	15:30 - 16:00	0.50	DRLPRC	07	A	P	3888	LUBRICATE RIG & CHANGE OUT RUBBER IN KILL LINE VALVE ON STAND PIPE

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 3/1/2014

End date: 5/18/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	16:00 - 0:00	8.00	DRLPRC	02	B	P	3888	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 3888' TO / 4723' = 835' @ 104.4' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 8-16K STAND PIPE PRESSURE ON BOTTOM = 1600 STAND PIPE PRESSURE OFF BOTTOM = 1,250 STRING WEIGHT UP/DOWN/ROTATING = 140K / 70K / 98K DRAG = 42K HOLE IN GOOD CONDITION SLIDE 24% OF TIME AND 30% OF FOOTAGE CURRENTLY 2.7' LOW & 7.5' RIGHT OF PLAN LINE BOS DE-WATERING - RUNNING CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 8.6 PPG VISCOSITY = 31 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB 5-10' FLARE WHILE DRILLING OFF AND ON
5/16/2014	0:00 - 8:00	8.00	DRLPRV	02	B	P	4723	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 4723' TO / 6000' = 1277' @ 159.6' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 9-17K STAND PIPE PRESSURE ON BOTTOM = 1750 STAND PIPE PRESSURE OFF BOTTOM = 1350 STRING WEIGHT UP/DOWN/ROTATING = 160K / 90K / 115K DRAG = 45K HOLE IN GOOD CONDITION SLIDE 10% OF TIME AND 5% OF FOOTAGE BOS DE-WATERING - RUNNING AS NEEDED CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 9 PPG VISCOSITY = 32 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB 5-10' FLARE WHILE DRILLING OFF AND ON

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 3/1/2014

End date: 5/18/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	8:00 - 15:30	7.50	DRLPRV	02	B	P	6000	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 6000' TO / 7001' = 1001' @ 133.5' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 9-17K STAND PIPE PRESSURE ON BOTTOM = 2000 STAND PIPE PRESSURE OFF BOTTOM = 1550 STRING WEIGHT UP/DOWN/ROTATING = 190K / 95K / 130K DRAG = 60K HOLE IN GOOD CONDITION SLIDE 35% OF TIME AND 13% OF FOOTAGE BOS DE-WATERING - RUNNING AS NEEDED CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 9 PPG VISCOSITY = 32 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB 5-10' FLARE WHILE DRILLING OFF AND ON
	15:30 - 16:00	0.50	DRLPRV	07	A	P	7001	LUBRICATE RIG
	16:00 - 0:00	8.00	DRLPRV	02	B	P	7001	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 7001' TO / 7887' = 886' @ 110.75' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMP @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 9-17K STAND PIPE PRESSURE ON BOTTOM = 2150 STAND PIPE PRESSURE OFF BOTTOM = 1800 STRING WEIGHT UP/DOWN/ROTATING = 205K / 105K / 140K DRAG = 60K HOLE IN GOOD CONDITION SLIDE 43% OF TIME AND 20% OF FOOTAGE CURRENTLY 3.4' NORTH & 11.6' WEST OF PLAN BOS DE-WATERING - RUNNING AS NEEDED CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 9 PPG VISCOSITY = 32 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB 5-10' FLARE WHILE DRILLING OFF AND ON

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 3/1/2014

End date: 5/18/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
5/17/2014	0:00 - 8:00	8.00	DRLPRC	02	B	P	7887	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 7887' TO / 8548' = 661' @ 82.6' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 2 PUMPS @ 60/60 GALLONS PER MINUTE = 590 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 12-20K STAND PIPE PRESSURE ON BOTTOM = 2250 STAND PIPE PRESSURE OFF BOTTOM = 1900 STRING WEIGHT UP/DOWN/ROTATING = 210K / 110K / 145K DRAG = 65K HOLE IN GOOD CONDITION BOS DE-WATERING - RUNNING AS NEEDED CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 9 PPG VISCOSITY = 32 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB 10-15' FLARE WHILE DRILLING
	8:00 - 13:00	5.00	DRLPRC	02	B	P	8548	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 8548' TO / 8902' = 354' @ 70.8' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 1 PUMP @ 105 GALLONS PER MINUTE = 515 MUD MOTOR RPM = 85, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 12-20K STAND PIPE PRESSURE ON BOTTOM = 2500 STAND PIPE PRESSURE OFF BOTTOM = 2200 STRING WEIGHT UP/DOWN/ROTATING = 210K / 110K / 145K DRAG = 65K HOLE IN GOOD CONDITION BOS DE-WATERING - RUNNING AS NEEDED CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 11.6 PPG VISCOSITY = 37 SECONDS DRILLING WITH FLOWZAN MUD SYSTEM MIXING HIGH VISCOSITY SWEEPS WITH CALCARB 10-15' FLARE WHILE DRILLING TRANSFERRED HEAVY MUD @ 8500'
	13:00 - 13:30	0.50	DRLPRC	22	G	X	8902	***LOST CIRCULATION AFTER MAKING A CONNECTION - PUMP LCM SWEEPS AND WORK DRILL STRING - REGAINED RETURNS AFTER LOSING 165 BBLs OF DRILLING MUD

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 3/1/2014

End date: 5/18/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	13:30 - 15:00	1.50	DRLPRC	02	B	P	8902	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 8902' TO / 8998' = 96' @ 64' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 1 PUMP @ 100 GALLONS PER MINUTE = 490 MUD MOTOR RPM = 82, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 12-20K STAND PIPE PRESSURE ON BOTTOM = 2700 STAND PIPE PRESSURE OFF BOTTOM = 2450 STRING WEIGHT UP/DOWN/ROTATING = 210K / 120K / 148K DRAG = 62K HOLE IN GOOD CONDITION BOS DE-WATERING - RUNNING AS NEEDED CENTRIFUGE - RUNNING DE-SANDER - RUNNING MUD WEIGHT = 11.6 PPG VISCOSITY = 37 SECONDS
	15:00 - 15:30	0.50	DRLPRC	07	A	P	8998	LUBRICATE RIG
	15:30 - 17:30	2.00	DRLPRC	02	B	P	8998	DIRECTIONAL DRILL 7 7/8 PRODUCTION HOLE FROM / 8998' TO / 9157' = 159' @ 79.5' PER HOUR WEIGHT ON BIT = 18-24K STROKES PER MINUTE 1 PUMP @ 100 GALLONS PER MINUTE = 490 MUD MOTOR RPM = 82, TOP DRIVE RPM = 50-70, TOTAL RPM = 123-143 FT/LBS TORQUE = 12-20K STAND PIPE PRESSURE ON BOTTOM = 2700 STAND PIPE PRESSURE OFF BOTTOM = 2450 STRING WEIGHT UP/DOWN/ROTATING = 210K / 120K / 148K DRAG = 62K HOLE IN GOOD CONDITION CURRENTLY 4.7' SOUTH & 10' EAST OF PLAN BOS DE-WATERING - OFF CENTRIFUGE - OFF DE-SANDER - RUNNING MUD WEIGHT = 12 PPG VISCOSITY = 37 SECONDS
	17:30 - 19:00	1.50	DRLPRO	05	A	P	9157	CONDITION MUD & CIRCULATE - PUMP HIGH VIS LCM SWEEP AROUND - PREPARE FOR SHORT TRIP
	19:00 - 20:00	1.00	DRLPRV	06	E	P	9157	WIPER TRIP 10 STANDS OUT OF HOLE - STRAIGHT PULL OFF BTM @ 260K - TRIP IN HOLE
	20:00 - 21:30	1.50	DRLPRV	05	A	P	9157	CONDITION MUD & CIRCULATE - PUMP HIGH VIS LCM SWEEP - BUILD PILL - HAD 10-15' FLARE ON BTMS UP
	21:30 - 0:00	2.50	DRLPRV	06	A	P	9157	TRIP OUT OF HOLE TO RUN 4 1/2 CASING - PUMP PILL & BLOW DOWN TOP DRIVE - STRAIGHT PULL @ 260K - TIGHT FROM 6920' TO 6912' - BACK REAM THROUGH - CONTINUE TRIPPING OUT OF HOLE

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.: SST 57/57, CAPSTAR 310/310

Event: DRILLING

Start date: 3/1/2014

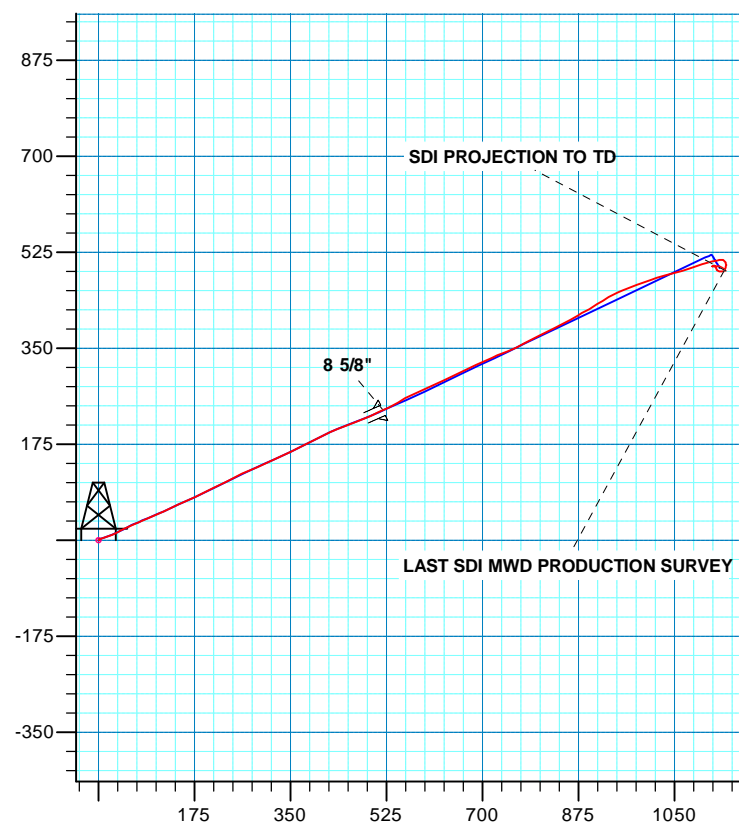
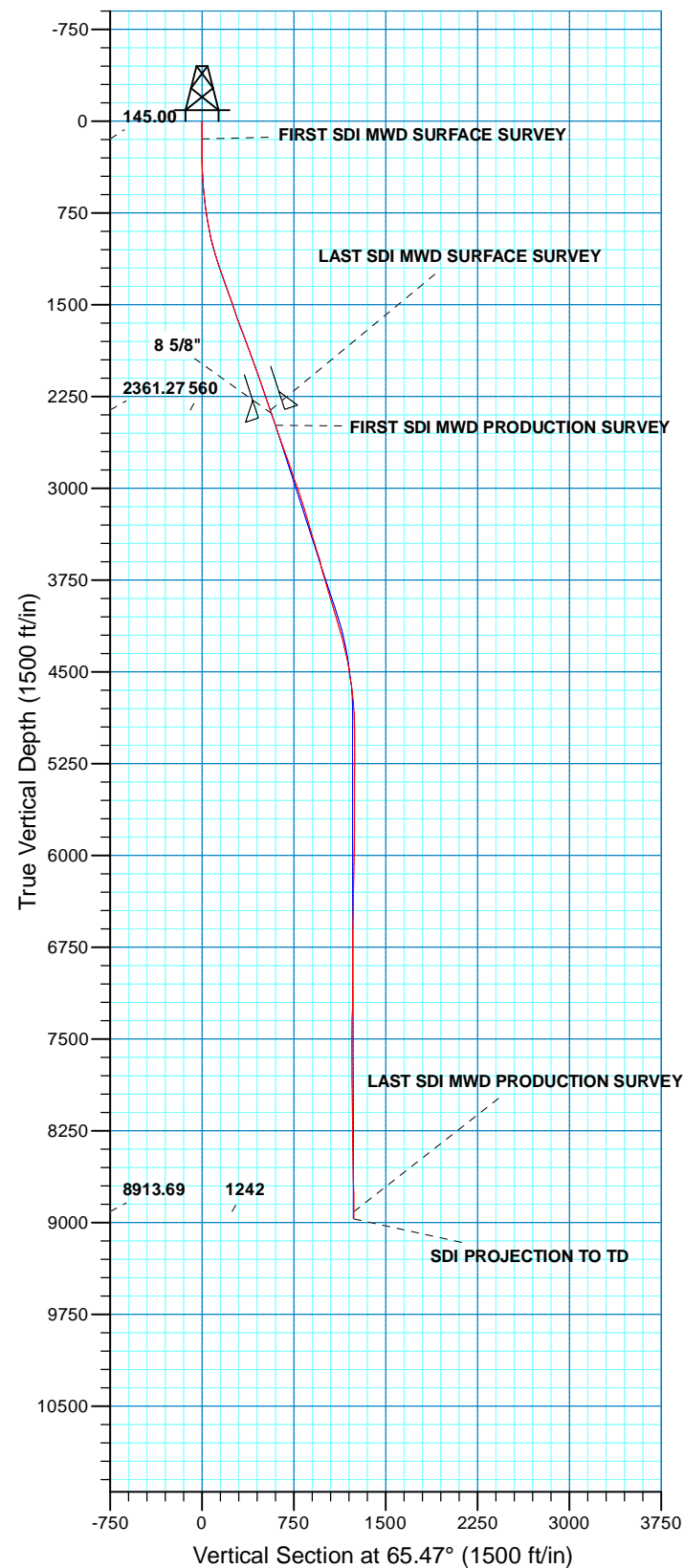
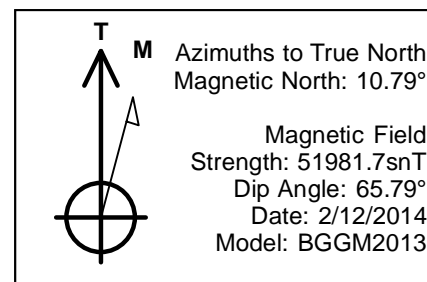
End date: 5/18/2014

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
5/18/2014	0:00 - 3:30	3.50	DRLPRV	06	A	P	9157	TRIP OUT OF HOLE TO RUN 4 1/2 CASING - PUMP PILL & BLOW DOWN TOP DRIVE - STRAIGHT PULL @ 260K - TIGHT FROM 6920' TO 6912' & 4505' TO 4483' - BACK REAM THROUGH TIGHT SPOTS - FINISH TRIP OUT
	3:30 - 4:00	0.50	DRLPRV	06	J	P	9157	LAY DOWN MWD TOOLS & MUD MOTOR
	4:00 - 4:30	0.50	DRLPRV	14	B	P	9157	PULL WEAR BUSHING
	4:30 - 5:30	1.00	CSGPRO	12	A	P	9157	HOLD SAFETY MEETING / RIG UP WYOMING CASING SERVICE CASING EQUIPMENT
	5:30 - 11:30	6.00	CSGPRO	12	C	P	9157	RAN 94 JTS + 2 MARKER JTS 4 1/2", 11.6#. I80, LT&C CASING + 112 JTS + CROSSOVER + PUP JT, 4 1/2", 11.6#, I80/ DQX CASING, SHOE AT 9147.56', TOP FLOAT COLLAR AT 9100.35', RAN 15 CENT'S - TOP OF MESEVERDE MK JT 6958.88'
	11:30 - 12:30	1.00	CSGPRO	05	D	P	9157	CIRCULATE / RIG DOWN WYOMING CASING SERVICE CASING TOOLS / RIG UP BAKER CEMENTING EQUIPMENT - CIRCULATE @ 100 SPM = 490 GPM @ 1100 PSI HAD 10-15' FLARE ON BTMS UP
	12:30 - 15:30	3.00	CSGPRO	12	E	P	9157	CEMENT W/ BAKER - HOLD SAFETY MEETING - TEST LINES TO 5000 PSI - PUMP 25 BBLS WATER SPACER - 185 BBLS LEAD CEMENT 528 SKS @ 12.5 PPG W/ 1.98 YIELD, MIX & PUMP 258 BBLS TAIL CEMENT 1085 SKS @ 14.3 PPG W/ 1.34 YIELD - WASH UP LINES - DISPLACE W/ 141.4 BBLS WATER - BUMP PLUG TO 3286 PSI - HAD 2640 PSI LIFT PRESSURE PRIOR TO BUMP PLUG / GOOD RETURNS THROUGHOUT JOB - 5 BBLS WATER TO SURFACE - RIG DOWN CEMENTERS PUMPED 25% EXCESS OF HOLE VOLUME ON LEAD & TAIL CEMENT EST TOP OF LEAD TO 467' EST TOP OF TAIL IS 4059'
	15:30 - 16:30	1.00	CSGPRO	12	B	P	9157	BACK OUT LANDING JT - INSTALL PACK OFF WITH CAMERON HAND - LAY DOWN LANDING JT
	16:30 - 18:00	1.50	RDMO	14	A	P	9157	NIPPLE DOWN BOP - CLEAN MUD TANKS - RELEASE RIG @ 1800 HRS ON 5/18/2014

WELL DETAILS: NBU 922-34K1BS					
GL 4989 & KB 18 @ 5007.00ft (SST 57)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14526635.44	2079823.48	39.9910050	-109.4312570



PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SECTION 34 T9S R22E
System Datum:	Mean Sea Level



Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

NBU 922-34L PAD

NBU 922-34K1BS

OH

Design: OH

Standard Survey Report

19 May, 2014





Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-34K1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Site:	NBU 922-34L PAD	MD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Well:	NBU 922-34K1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site						NBU 922-34L PAD, SECTION 34 T9S R22E											
Site Position:			Northing:			14,526,606.18 usft			Latitude:			39.9909260					
From:			Lat/Long			Easting:			2,079,795.97 usft			Longitude:			-109.4313570		
Position Uncertainty:			0.00 ft			Slot Radius:			13.200 in			Grid Convergence:			1.01 °		

Well	NBU 922-34K1BS, 2078 FSL 1019 FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,526,635.44 usft	Latitude:	39.9910050
	+E/-W	0.00 ft	Easting:	2,079,823.48 usft	Longitude:	-109.4312570
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,989.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	2/12/2014	10.79	65.79	51,982

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	65.47	

Survey Program	Date	5/19/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
9.00	2,449.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
2,579.00	9,157.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
145.00	0.44	43.13	145.00	0.38	0.36	0.48	0.32	0.32	0.00	
FIRST SDI MWD SURFACE SURVEY										
239.00	0.74	35.09	238.99	1.14	0.95	1.34	0.33	0.32	-8.55	
332.00	1.06	63.26	331.98	2.02	2.07	2.72	0.58	0.34	30.29	
424.00	2.82	74.80	423.93	3.00	5.01	5.80	1.95	1.91	12.54	
518.00	4.31	68.50	517.74	4.90	10.53	11.61	1.64	1.59	-6.70	
611.00	5.28	73.80	610.42	7.37	17.89	19.34	1.15	1.04	5.70	
706.00	7.30	64.31	704.84	11.21	27.53	29.70	2.38	2.13	-9.99	



Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-34K1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Site:	NBU 922-34L PAD	MD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Well:	NBU 922-34K1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
801.00	9.40	63.23	798.83	17.32	39.89	43.48	2.22	2.21	-1.14
895.00	11.08	64.22	891.33	24.71	54.88	60.19	1.80	1.79	1.05
988.00	13.45	65.98	982.20	33.00	72.81	79.94	2.58	2.55	1.89
1,080.00	15.64	67.84	1,071.25	42.03	94.07	103.03	2.43	2.38	2.02
1,174.00	17.67	66.42	1,161.30	52.52	118.88	129.96	2.20	2.16	-1.51
1,267.00	19.70	65.89	1,249.39	64.57	146.13	159.75	2.19	2.18	-0.57
1,360.00	20.40	64.05	1,336.76	78.06	175.01	191.63	1.01	0.75	-1.98
1,454.00	20.84	63.70	1,424.73	92.64	204.73	224.72	0.49	0.47	-0.37
1,549.00	19.35	63.61	1,513.95	107.13	233.98	257.34	1.57	-1.57	-0.09
1,644.00	18.47	64.66	1,603.82	120.56	261.68	288.12	0.99	-0.93	1.11
1,737.00	19.79	66.95	1,691.68	133.03	289.49	318.59	1.63	1.42	2.46
1,831.00	21.50	66.06	1,779.65	146.25	319.87	351.72	1.85	1.82	-0.95
1,925.00	19.96	64.14	1,867.56	160.24	350.06	384.99	1.79	-1.64	-2.04
2,019.00	20.49	61.87	1,955.76	175.00	379.00	417.45	1.01	0.56	-2.41
2,114.00	19.62	63.38	2,045.00	189.98	407.93	449.98	1.07	-0.92	1.59
2,207.00	19.44	67.36	2,132.66	202.94	436.17	481.06	1.44	-0.19	4.28
2,303.00	19.61	68.88	2,223.14	214.89	465.94	513.10	0.56	0.18	1.58
2,398.00	18.73	68.00	2,312.87	226.35	494.96	544.26	0.97	-0.93	-0.93
2,449.00	18.03	66.07	2,361.27	232.62	509.76	560.33	1.82	-1.37	-3.78
LAST SDI MWD SURFACE SURVEY									
2,579.00	18.33	60.30	2,484.79	250.91	545.91	600.81	1.40	0.23	-4.44
FIRST SDI MWD PRODUCTION SURVEY									
2,674.00	19.77	64.45	2,574.59	265.24	573.39	631.75	2.08	1.52	4.37
2,769.00	19.20	65.03	2,664.14	278.76	602.04	663.44	0.63	-0.60	0.61
2,864.00	18.76	65.19	2,753.98	291.77	630.07	694.34	0.47	-0.46	0.17
2,959.00	20.14	64.81	2,843.56	305.14	658.74	725.97	1.46	1.45	-0.40
3,054.00	19.87	64.20	2,932.82	319.13	688.07	758.46	0.36	-0.28	-0.64
3,149.00	19.60	65.78	3,022.24	332.69	717.14	790.54	0.63	-0.28	1.66
3,244.00	17.23	69.03	3,112.38	344.27	744.81	820.52	2.72	-2.49	3.42
3,339.00	16.00	62.35	3,203.42	355.38	769.55	847.64	2.39	-1.29	-7.03
3,434.00	15.65	61.47	3,294.82	367.57	792.41	873.49	0.45	-0.37	-0.93
3,529.00	17.85	64.02	3,385.78	380.07	816.76	900.83	2.44	2.32	2.68
3,624.00	16.88	63.41	3,476.45	392.63	842.18	929.17	1.04	-1.02	-0.64
3,719.00	16.18	59.63	3,567.53	405.49	865.93	956.13	1.35	-0.74	-3.98
3,814.00	13.89	62.18	3,659.27	417.51	887.44	980.68	2.51	-2.41	2.68
3,908.00	15.48	56.90	3,750.20	429.63	907.93	1,004.35	2.21	1.69	-5.62
4,003.00	15.48	61.12	3,841.76	442.67	929.65	1,029.53	1.19	0.00	4.44
4,099.00	17.50	66.75	3,933.81	454.56	954.14	1,056.74	2.68	2.10	5.86
4,194.00	17.86	69.58	4,024.32	465.28	980.91	1,085.55	0.98	0.38	2.98
4,288.00	17.40	71.33	4,113.91	474.81	1,007.74	1,113.91	0.75	-0.49	1.86
4,383.00	15.08	74.83	4,205.11	482.59	1,033.13	1,140.24	2.65	-2.44	3.68
4,478.00	13.28	74.04	4,297.21	488.83	1,055.55	1,163.22	1.91	-1.89	-0.83
4,573.00	11.39	71.20	4,390.02	494.85	1,074.92	1,183.35	2.09	-1.99	-2.99



Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-34K1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Site:	NBU 922-34L PAD	MD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Well:	NBU 922-34K1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,668.00	9.74	72.86	4,483.41	500.24	1,091.48	1,200.65	1.77	-1.74	1.75
4,763.00	8.62	72.64	4,577.19	504.73	1,105.95	1,215.69	1.18	-1.18	-0.23
4,858.00	6.74	80.34	4,671.33	507.79	1,118.25	1,228.14	2.25	-1.98	8.11
4,953.00	4.90	77.11	4,765.84	509.64	1,127.70	1,237.50	1.97	-1.94	-3.40
5,048.00	3.26	91.79	4,860.60	510.46	1,134.35	1,243.90	2.03	-1.73	15.45
5,143.00	1.48	103.04	4,955.51	510.09	1,138.25	1,247.29	1.93	-1.87	11.84
5,238.00	0.79	125.63	5,050.49	509.44	1,139.98	1,248.59	0.85	-0.73	23.78
5,332.00	0.84	132.07	5,144.48	508.60	1,141.01	1,249.19	0.11	0.05	6.85
5,427.00	0.88	152.79	5,239.47	507.48	1,141.87	1,249.50	0.33	0.04	21.81
5,522.00	1.08	160.19	5,334.46	505.99	1,142.50	1,249.46	0.25	0.21	7.79
5,617.00	1.58	162.37	5,429.43	503.90	1,143.20	1,249.23	0.53	0.53	2.29
5,712.00	1.49	167.91	5,524.40	501.44	1,143.86	1,248.80	0.18	-0.09	5.83
5,807.00	1.49	199.37	5,619.37	499.07	1,143.71	1,247.68	0.85	0.00	33.12
5,902.00	1.58	190.59	5,714.34	496.62	1,143.06	1,246.07	0.26	0.09	-9.24
5,997.00	0.97	228.55	5,809.31	494.80	1,142.21	1,244.55	1.06	-0.64	39.96
6,092.00	0.70	218.09	5,904.30	493.81	1,141.25	1,243.26	0.33	-0.28	-11.01
6,187.00	0.88	188.83	5,999.29	492.63	1,140.78	1,242.35	0.46	0.19	-30.80
6,282.00	1.06	206.14	6,094.28	491.12	1,140.28	1,241.27	0.36	0.19	18.22
6,376.00	0.70	231.00	6,188.27	489.98	1,139.45	1,240.04	0.55	-0.38	26.45
6,471.00	1.26	280.23	6,283.26	489.80	1,137.98	1,238.62	1.01	0.59	51.82
6,566.00	1.67	266.08	6,378.23	489.89	1,135.57	1,236.46	0.57	0.43	-14.89
6,661.00	1.41	269.34	6,473.19	489.78	1,133.02	1,234.10	0.29	-0.27	3.43
6,756.00	0.97	285.24	6,568.17	489.98	1,131.07	1,232.41	0.57	-0.46	16.74
6,851.00	1.49	284.01	6,663.15	490.49	1,129.10	1,230.83	0.55	0.55	-1.29
6,946.00	1.32	325.50	6,758.12	491.69	1,127.28	1,229.67	1.06	-0.18	43.67
7,041.00	0.53	12.96	6,853.11	493.02	1,126.76	1,229.75	1.09	-0.83	49.96
7,136.00	2.19	332.03	6,948.08	495.05	1,126.01	1,229.91	1.92	1.75	-43.08
7,231.00	1.51	330.62	7,043.03	497.75	1,124.54	1,229.69	0.72	-0.72	-1.48
7,326.00	1.23	326.11	7,138.01	499.69	1,123.36	1,229.42	0.32	-0.29	-4.75
7,421.00	0.88	268.54	7,232.99	500.51	1,122.06	1,228.58	1.12	-0.37	-60.60
7,516.00	1.06	247.27	7,327.98	500.16	1,120.52	1,227.04	0.42	0.19	-22.39
7,611.00	0.44	212.65	7,422.97	499.51	1,119.51	1,225.85	0.78	-0.65	-36.44
7,706.00	0.18	248.77	7,517.97	499.15	1,119.18	1,225.40	0.33	-0.27	38.02
7,801.00	0.70	122.47	7,612.97	498.78	1,119.53	1,225.56	0.86	0.55	-132.95
7,896.00	0.79	74.39	7,707.96	498.65	1,120.65	1,226.53	0.64	0.09	-50.61
7,991.00	0.68	79.37	7,802.95	498.93	1,121.83	1,227.72	0.13	-0.12	5.24
8,086.00	0.56	76.53	7,897.95	499.14	1,122.84	1,228.72	0.13	-0.13	-2.99
8,182.00	0.53	75.18	7,993.94	499.36	1,123.72	1,229.62	0.03	-0.03	-1.41
8,277.00	0.33	124.93	8,088.94	499.32	1,124.37	1,230.19	0.43	-0.21	52.37
8,372.00	0.62	91.27	8,183.94	499.15	1,125.11	1,230.79	0.41	0.31	-35.43
8,467.00	0.88	74.75	8,278.93	499.33	1,126.33	1,231.98	0.35	0.27	-17.39
8,562.00	1.23	90.30	8,373.91	499.52	1,128.05	1,233.62	0.47	0.37	16.37
8,657.00	0.88	106.56	8,468.90	499.30	1,129.77	1,235.10	0.48	-0.37	17.12
8,752.00	1.32	109.64	8,563.88	498.73	1,131.50	1,236.43	0.47	0.46	3.24



Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 922-34K1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Site:	NBU 922-34L PAD	MD Reference:	GL 4989 & KB 18 @ 5007.00ft (SST 57)
Well:	NBU 922-34K1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,847.00	1.85	119.83	8,658.84	497.60	1,133.86	1,238.11	0.63	0.56	10.73	
8,943.00	1.85	115.35	8,754.79	496.16	1,136.61	1,240.01	0.15	0.00	-4.67	
9,038.00	1.97	135.25	8,849.74	494.35	1,139.14	1,241.56	0.71	0.13	20.95	
9,102.00	2.49	137.91	8,913.69	492.53	1,140.85	1,242.36	0.83	0.81	4.16	
LAST SDI MWD PRODUCTION SURVEY										
9,157.00	2.49	137.91	8,968.64	490.76	1,142.45	1,243.09	0.00	0.00	0.00	
SDI PROJECTION TO TD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
145.00	145.00	0.38	0.36	FIRST SDI MWD SURFACE SURVEY	
2,449.00	2,361.27	232.62	509.76	LAST SDI MWD SURFACE SURVEY	
2,579.00	2,484.79	250.91	545.91	FIRST SDI MWD PRODUCTION SURVEY	
9,102.00	8,913.69	492.53	1,140.85	LAST SDI MWD PRODUCTION SURVEY	
9,157.00	8,968.64	490.76	1,142.45	SDI PROJECTION TO TD	

Checked By: _____ Approved By: _____ Date: _____

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.:

Event: COMPLETION

Start date: 7/9/2014

End date: 1/16/2015

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
7/7/2014	-							
7/9/2014	9:30 - 11:00	1.50	SUBSPR	52	B	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & SURFACE CSG 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST -51 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 510 PSI HELD FOR 5 MIN LOST -262 PSI, BLEED PSI OFF, REINSTALLED POP OFF SWIFN 150 PSI ON SURFACE CASING FILLED SURFACE WITH 3 BBLS H2O
12/23/2014	9:00 - 10:00	1.00	SUBSPR	52	B	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST -53 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI.
	10:00 - 11:00	1.00	SUBSPR	37	D	P		PERF STG 1)PU 3 1/8 EXP GUN, 19 GM, .40 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW
12/29/2014	6:30 - 6:45	0.25	FRAC	48		P		HSM-JSA
	6:45 - 17:30	10.75	FRAC	36	H	P		FRAC STG #1) WHP 1557 PSI, BRK 3308 PSI @ 3.3 BPM. ISIP 2595 PSI, FG. 0.73 ISIP 2776 PSI, FG. 0.75, NPI 181 PSI, X/O TO WL. SET CBP & PERF STG #2 AS DESIGNED, X/O TO FRAC. FRAC STG #2) WHP 2026 PSI, BRK 3469 PSI @ 4.3 BPM. ISIP 2602 PSI, FG. 0.73 ISIP 2755 PSI, FG. 0.75, NPI 153 PSI, X/O TO WL. SET CBP & PERF STG #3 AS DESIGNED, X/O TO FRAC. FRAC STG #3) WHP 2026 PSI, BRK 3637 PSI @ 4.8 BPM. ISIP 2349 PSI, FG. 0.71 ISIP 2606 PSI, FG. 0.74, NPI 257 PSI, X/O TO WL. SET CBP & PERF STG #4 AS DESIGNED, X/O TO FRAC. FRAC STG #4) WHP 2048 PSI, BRK 2458 PSI @ 5.8 BPM. ISIP 2050 PSI, FG. 0.68 ISIP 2399 PSI, FG. 0.73, NPI 349 PSI, X/O TO WL. SET CBP & PERF STG #5 AS DESIGNED, SWI, SDFN.

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.:

Event: COMPLETION

Start date: 7/9/2014

End date: 1/16/2015

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
12/30/2014	6:30 - 6:45	0.25	FRAC	48		P		HSM-JSA
	6:45 - 17:30	10.75	FRAC	36	H	P		FRAC STG #5) WHP 1919 PSI, BRK 2285 PSI @ 9.2 BPM. ISIP 1948 PSI, FG. 0.68 ISIP 2534 PSI, FG. 0.76, NPI 586 PSI, X/O TO WL. SET CBP & PERF STG #6 AS DESIGNED, X/O TO FRAC. FRAC STG #6) WHP 769 PSI, BRK 5640 PSI @ 4.6 BPM. ISIP 2366 PSI, FG. 0.74 ISIP 2412 PSI, FG. 0.75, NPI 46 PSI, X/O TO WL. SET CBP & PERF STG #7 AS DESIGNED, X/O TO FRAC. FRAC STG #7) WHP 1025 PSI, BRK 3896 PSI @ 4.8 BPM. ISIP 2453 PSI, FG. 0.76 ISIP 2448 PSI, FG. 0.76, NPI -5 PSI, X/O TO WL. SET CBP & PERF STG #8 AS DESIGNED, X/O TO FRAC. FRAC STG #8) WHP 623 PSI, BRK 2498 PSI @ 4.6 BPM. ISIP 1060 PSI, FG. 0.58 ISIP 1777 PSI, FG. 0.68, NPI 717 PSI, X/O TO WL. SET CBP & PERF STG #9 AS DESIGNED, X/O TO FRAC. FRAC STG #9) WHP 1084 PSI, BRK 1802 PSI @ 4.2 BPM. ISIP 1289 PSI, FG. 0.62 ISIP 1899 PSI, FG. 0.71, NPI 610 PSI, X/O TO WL. SET KILL PLUG. RDMO WL & FRAC EQUIP. TOTAL FLUID= 10796 BBLS TOTAL SAND= 220997 LBS
1/15/2015	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, UNLOADING PIPE W/ FORK LIFT
	7:15 - 10:00	2.75	DRLOUT	30	A	P		MIRU / N/D WELL HEAD, N/U BOPS, MIRU SLAUGH PIPE WRANGLER, PRESSURE TEST BOPS TO 3,000# [NO LEAKS]
	10:00 - 16:00	6.00	DRLOUT	31	I	P		P/U 3-7/8 BIT W/ POBS PKG, TALLEY AND P/.U 217 JNTS 2-3/8 L-80 TBG, TAG @=6,865, P/U POWER SWIVEL DRILL IN AM. SWIFN.'
1/16/2015	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, PRESSURE TESTING

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-34K1BS BLUE

Spud date: 3/2/2014

Project: UTAH-UINTAH

Site: NBU 922-34L PAD

Rig name no.:

Event: COMPLETION

Start date: 7/9/2014

End date: 1/16/2015

Active datum: RKB @5,007.00usft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/34/0/0/26/PM/S/2078/W/0/1019/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:15 - 17:00	9.75	DRLOUT	44	C	P		<p>SICP=0#, SITP=0#, OPEN WELL PRESSURE TEST BOPS TO 3,000# [NO LEAKS] BREAK CIRC W/ RIG PUMP, DRILL THROUGH HALIBURTURTON PLUG @=6,874' IN 5 MIN W/ 100# PRESSURE INCREASE.</p> <p>PLUG #2] CONT. TO RIH TAG @=7,033' [25' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=7,058' IN 4 MIN W/ 200# PRESSURE INCREASE.</p> <p>PLUG #3] CONT. TO RIH TAG @=7,258' [35' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=7,293' IN 7 MIN W/ 200# PRESSURE INCREASE.</p> <p>PLUG #4] CONT. TO RIH TAG @=7,529' [25' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=7,554' IN 3 MIN W/ 300# PRESSURE INCREASE.</p> <p>PLUG #5] CONT. TO RIH TAG @=7,755' [25' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=7,780' IN 8 MIN W/ 550# PRESSURE INCREASE.</p> <p>PLUG #6] CONT. TO RIH TAG @=8,068' [20' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=8,088' IN 4 MIN W/ 550# PRESSURE INCREASE.</p> <p>PLUG #7] CONT. TO RIH TAG @=8,274' [25' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=8,299' IN 9 MIN W/ 300# PRESSURE INCREASE.</p> <p>PLUG #8] CONT. TO RIH TAG @=8,507' [25' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=8,532' IN 9 MIN W/ 300# PRESSURE INCREASE.</p> <p>PLUG #9] CONT. TO RIH TAG @=8728' [20' FILL] C/O AND DRILL THROUGH HALIBURTON PLUG @=8,748' IN 5 MIN W/ 300# PRESSURE INCREASE. CONT. TO RIH C/O TO PBTD @=9,100' CIRC WELL, R/D POWER SWIVEL, L/D 17 JNTS, P/U AND SRIP HANGER IN WELL LAND TBG W/ 269 JNTS 2-3/8 L-80 TBG, R/D PIPE WRANGLER, R/D TBG EQUIP, N/D BOPS, DROP BALL, N/U WELL HEAD PUMP BIT OFF W/ 1,950# PRESSURE TURN OVER TO F/B CREW</p> <p>KB 24.00 4-1/2 HANGER .83 269 JNTS 2-3/8 L-80 8,527.22 XN-NIPPLE 2.20 EOT @= 8,554.25</p>

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION		
Representative			
Address			

1.2 Well/Wellbore Information

Well	NBU 922-34K1BS BLUE	Wellbore No.	00
Well Name	NBU 922-34K1BS	Wellbore Name	NBU 922-34K1BS
Report no.	1	Report date	12/29/2014
Project	UTAH-UINTAH	Site	NBU 922-34L PAD
Rig Name/No.		Event	COMPLETION
Start date	7/9/2014	End date	1/16/2015
Spud date	3/2/2014	Active datum	RKB @5,007.00usft (above Mean Sea Level)
UWI	NW/SW/09/S/22/E/34/0/0/26/PM/S/2078W/0/1019/0/0		

1.3 General

Contractor		Job method		Supervisor	
Perforated Assembly		Conveyed method			

1.4 Initial Conditions

Fluid type		Fluid density		Gross Interval	6,924.0	(usft)-9,000.0	(usft)	Start Date/Time	12/29/2014 12:00AM
Surface press.		Estimate res press		No. of intervals	66	End Date/Time		12/29/2014 12:00AM	
TVD fluid top		Fluid head		Total shots	216	Net perforation interval		72.00	(usft)
Hydrostatic press.		Press. difference		Avg. shot density	3.00	(shot/ft)	Final surface pressure		
Balance Cond	NEUTRAL						Final press. date		

1.5 Summary

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/2014 12:00AM	M E S A VERDE/			6,924.0	6,925.0	3.00		0.410 EXP/		3.125	120.00		19.00	PRODUCTION		

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/2014 12:00AM	M E S A VERDE/			6,933.0	6,934.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			6,947.0	6,948.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			6,960.0	6,961.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			6,980.0	6,982.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			6,994.0	6,995.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,027.0	7,028.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,122.0	7,123.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,148.0	7,149.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,160.0	7,161.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,180.0	7,181.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,197.0	7,198.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,212.0	7,213.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,236.0	7,237.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,259.0	7,260.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,351.0	7,352.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		

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US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/2014 12:00AM	M E S A VERDE/			7,370.0	7,371.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,380.0	7,381.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,454.0	7,455.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,487.0	7,488.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,516.0	7,517.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,530.0	7,532.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,582.0	7,583.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,601.0	7,602.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,627.0	7,628.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,656.0	7,657.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,667.0	7,668.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,739.0	7,740.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,748.0	7,750.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,843.0	7,844.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			7,903.0	7,904.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/2014 12:00AM	M E S A VERDE/			7,996.0	7,998.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,033.0	8,034.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,044.0	8,045.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,056.0	8,057.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,065.0	8,066.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,104.0	8,105.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,115.0	8,116.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,130.0	8,131.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,193.0	8,194.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,231.0	8,232.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,243.0	8,244.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,259.0	8,260.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,273.0	8,274.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,329.0	8,330.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,354.0	8,355.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/2014 12:00AM	M E S A VERDE/			8,381.0	8,382.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,410.0	8,411.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,427.0	8,428.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,445.0	8,446.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,478.0	8,479.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,501.0	8,502.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,586.0	8,587.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,596.0	8,597.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,606.0	8,607.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,624.0	8,625.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,642.0	8,643.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,680.0	8,681.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,724.0	8,726.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,768.0	8,769.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		
12/29/2014 12:00AM	M E S A VERDE/			8,799.0	8,800.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTION		

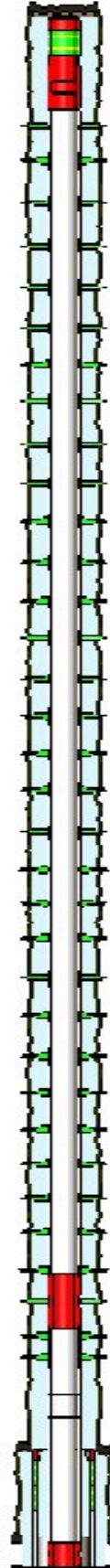
US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
12/29/201 4 12:00AM	M E S A VERDE/			8,888.0	8,889.0	3.00		0.410 EXP/		3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,944.0	8,946.0	3.00		0.410 EXP/		3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,969.0	8,970.0	3.00		0.410 EXP/		3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,987.0	8,988.0	3.00		0.410 EXP/		3.125	120.00		19.00	PRODUCTION		
12/29/201 4 12:00AM	M E S A VERDE/			8,999.0	9,000.0	3.00		0.410 EXP/		3.125	120.00		19.00	PRODUCTION		

3 Plots

3.1 Wellbore Schematic



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